

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS ☒ X WATER SANDS LOCATION INSPECTED SUB. REPORT/abd

DATE FILED MARCH 18, 1996

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO. U-50376

INDIAN

DRILLING APPROVED: APRIL 4, 1996

SPUDDED IN: MAY 16, 1996

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED:

FIELD: UNDESIGNATED

UNIT:

COUNTY: DUCHESNE

WELL NO. BOUNDARY FEDERAL 13-19

API NO. 43-013-31625

LOCATION 742 FSL FT. FROM (N) (S) LINE, 823 FWL

FT. FROM (E) (W) LINE. SW SW

1/4 - 1/4 SEC. 19

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

P.O. Box 1446 Roosevelt, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

SW/SW

742' FSL & 823' FWL

At proposed prod. zone

726

850

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

7.2 miles south of Myton, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

742'

16. NO. OF ACRES IN LEASE

1280.93

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1483'

19. PROPOSED DEPTH

6500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5379' GR

22. APPROX. DATE WORK WILL START*

2nd quarter 1996

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	120 sx Class G+2% CaCl+2% Gel
7 7/8	5 1/2	15.5#	TD	400 sx Hifill followed by
				330 sx Class G w/ 10% CaCl

The actual cement volumes will be calculated off of the open hole logs,
plus 15% excess.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Brad Mecham

TITLE Operations Manager

DATE 3/13/96

(This space for Federal or State office use)

PERMIT NO.

43-013-31625

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

Petroleum Engineer

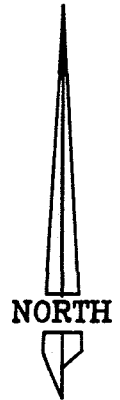
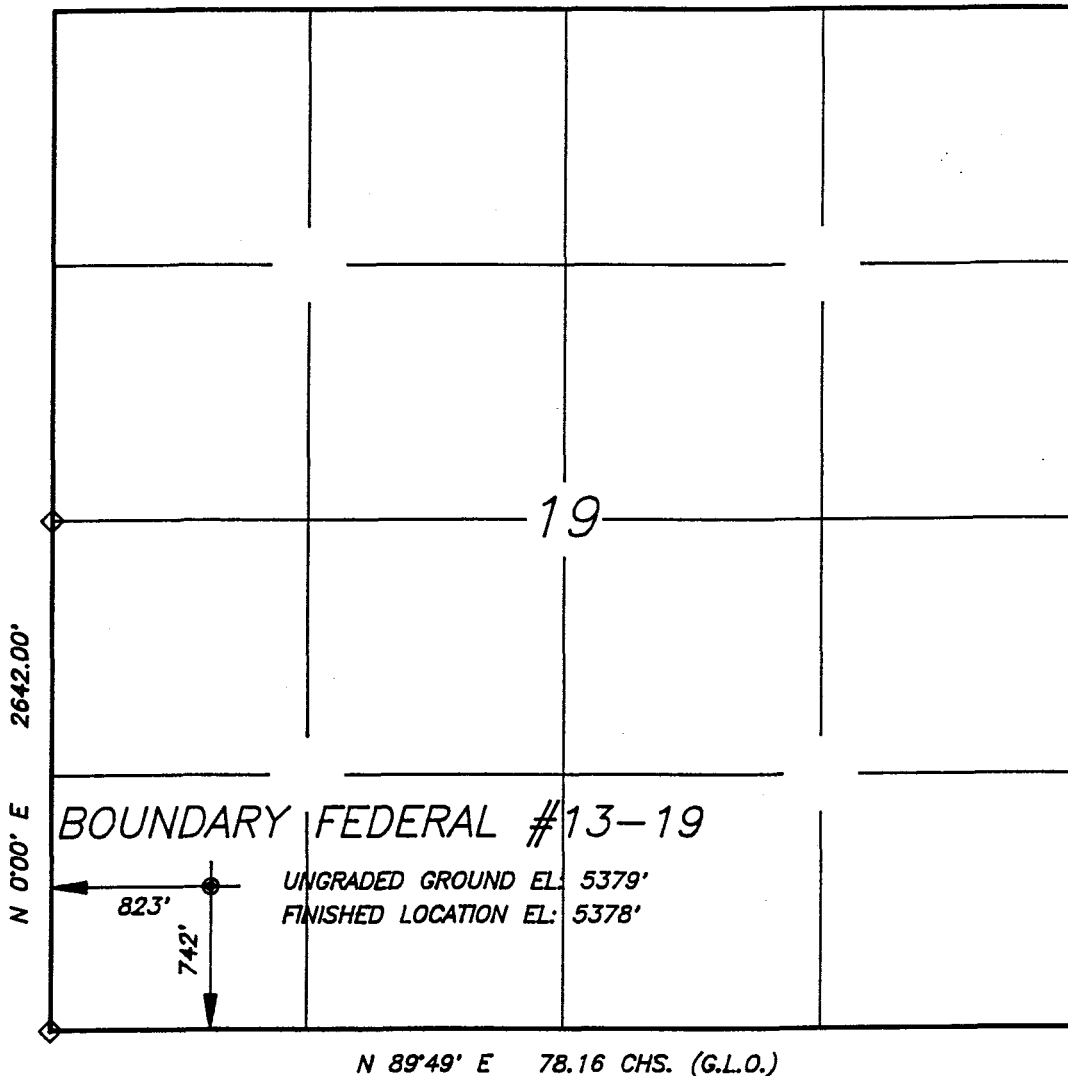
DATE

4/4/96

*See Instructions On Reverse Side

INLAND PRODUCTION CO.
WELL LOCATION PLAT
BOUNDARY FEDERAL #13-19

LOCATED IN THE SW1/4 OF THE SW1/4
SECTION 19, T8S, R17E, S.L.B.&M.

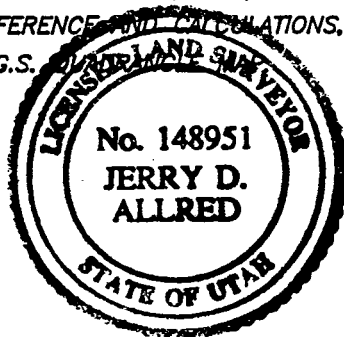


SCALE: 1" = 1000'

LEGEND AND NOTES

- ◇ ORIGINAL CORNER MONUMENTS FOUND AND USED BY THIS SURVEY.

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS, AS WAS THE U.S.G.S. PLAT.



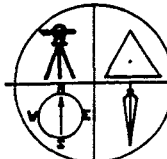
29 FEB 1996

84-121-051

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY PERFORMED BY ME, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR ESTABLISHED.

Jerry D. Allred
JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

121 NORTH CENTER STREET
P.O. BOX 975
DUCHESE, UTAH 84021
(801)-738-5352

**BOUNDARY FEDERAL #13-19
SW/SW SECTION 19, T8S, R17E
DUCHESNE COUNTY, UTAH
U-50376**

HAZARDOUS MATERIAL DECLARATION

INLAND PRODUCTION COMPANY guarantees that during the drilling & completion of the above referenced well, we will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986.

INLAND PRODUCTION COMPANY guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A CULTURAL RESOURCES SURVEY OF
BOUNDARY FEDERAL WELL #13-19, DUCHESNE COUNTY, UTAH
43-013-31625

by

Heather M. Weymouth
Senior Archaeologist



Prepared for:

Inland Production Company
P.O. Box 1446
Roosevelt, Utah 84066

Prepared by:

Sagebrush Archaeological Consultants, L.L.C.
3670 Quincy Avenue, Suite 203
Ogden, Utah 84403

Under Authority of Cultural Resources Use Permit No. 95UT54630

and

Under Authority of Utah State Antiquities Permit No. U-96-SJ-0118b

Archaeological Report No. 854-01

March 11, 1996

INTRODUCTION

In February 1996, Inland Production Company (Inland) of Roosevelt, Utah requested that Sagebrush Archaeological Consultants, L.L.C. (Sagebrush) conduct a cultural resources inventory of Inland's Boundary Federal well #13-19 (742' FSL 823' FWL) located on lands controlled by the Bureau of Land Management (BLM) in Duchesne County, Utah (Figure 1).

The proposed well is located in T. 8S., R. 17E., S. 19 on USGS 7.5' Quadrangle Myton SE, Utah (1964). The project was carried out by Heather M. Weymouth and Lynita S. Langley on March 6, 1996 under authority of Cultural Resources Use Permit No. 95UT54630 and Utah State Antiquities Permit No. U-96-SJ-0118b.

A file search for previously recorded cultural resource sites and paleontological localities located near the current project area was conducted by Heather M. Weymouth and Lynita S. Langley on February 23, 1996 at the BLM, Vernal District Office to determine if any cultural resource projects had been conducted or sites recorded in or near the current project area. An additional file search was conducted by Michael R. Polk at the Division of State History, Utah State Historic Preservation Office, Salt Lake City on February 21, 1996.

More than 30 previous cultural resources projects have been conducted in the area of the current project. Due to the large number of projects conducted in this area, individual project descriptions will not be listed. However, five cultural resources sites and three paleontological localities are listed as being located near the current project area. Following is a brief description of these sites and localities:

Cultural Resource Sites

Site 42Dc557. This site, located in a wide drainage at the base of a rock face, is a small historic trash scatter. This site was recommended NOT eligible to the National Register of Historic Places (NRHP).

Site 42Dc854. This site is a large prehistoric campsite located in a dunal area. This site consists primarily of a large (500-plus flakes) lithic scatter. Primary flakes are dominant with secondary common, tertiary flakes, shatter and cores present but rare. Fire-cracked rock (FCR) was scattered through the site in eroded areas. No particular FCR configurations were noted possibly due to the deflated nature of portions of the site. Seven crude bifaces and two possible groundstone fragments (one a possible mano fragment) were also located at this site. This site was recommended ELIGIBLE to the NRHP.

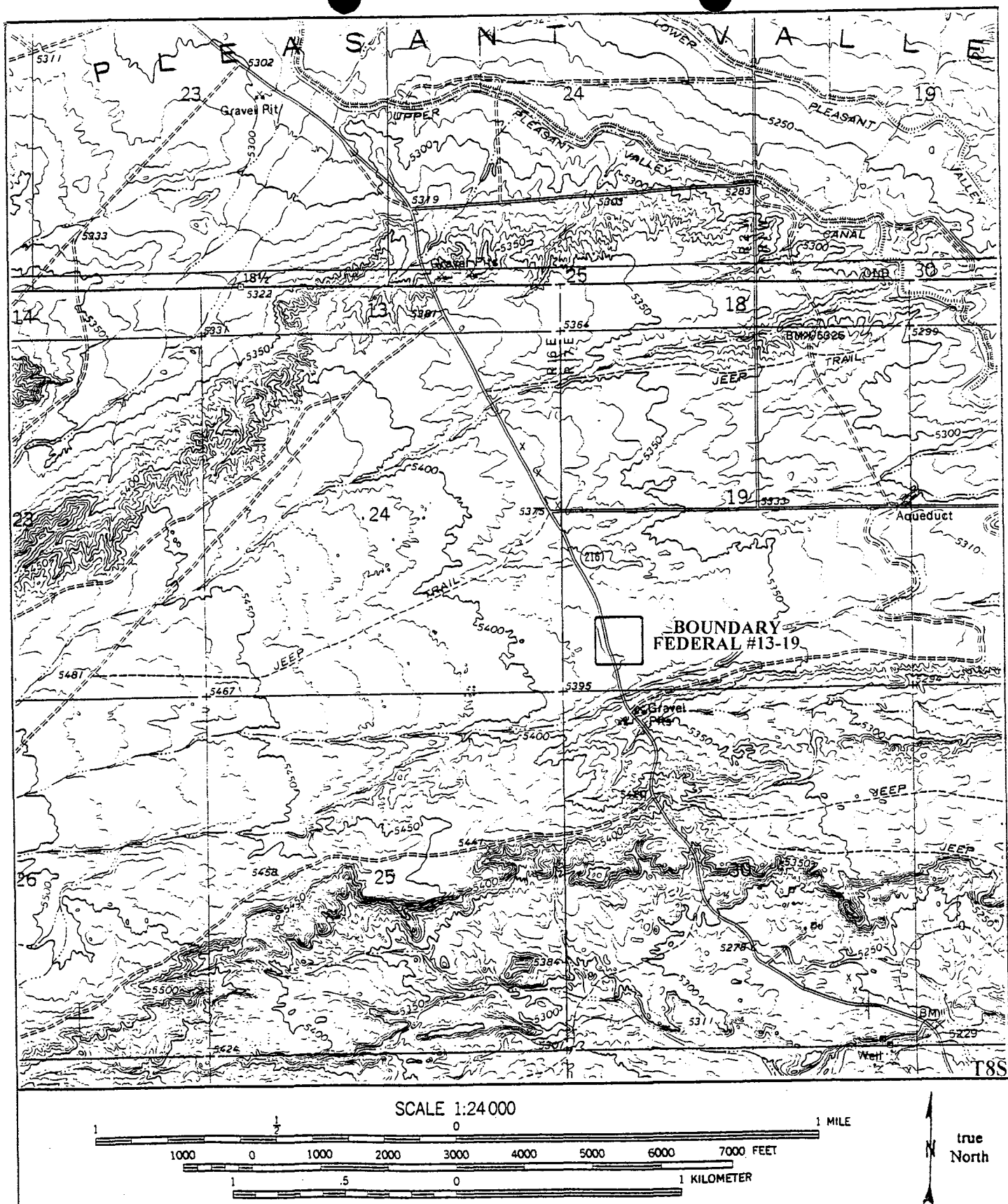


Figure 1. Location of Inland Resources Corporation's Boundary Federal Well #13-19. Taken from USGS 7.5' Quadrangle Myton SE, Utah (1964).

Site 42Dc908. This site consists of a large lithic scatter and is located on a gently sloping bench above a large drainage and below a small knoll. Tools located at the site include sixteen bifacially worked tools and two cores. No diagnostic tools or features were noted. This site was recommended ELIGIBLE to the NRHP.

Site 42Dc909. This site, located on a sandy bluff flanked by three drainages, consists of a large and sparse lithic scatter. Artifacts noted include approximately 150 lithic flakes, three bifaces and a drill. No features and no diagnostic tools were noted. This site was recommended ELIGIBLE to the NRHP.

Site 42Dc937. This site, located at the terminus of a gravel-covered sand bar between two ephemeral stream channels, is a sparse lithic scatter of low grade chert. No diagnostic artifacts nor features are present at the site. This site was recommended NOT eligible to the NRHP.

Paleontological Localities

Locality 42Dc103p. This locality, situated in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 25, consists of plant specimens and a possible fish tail fossil found in an outcropping of sandstone in the Uinta Formation. This locality is considered IMPORTANT.

Locality 42Dc224v. This locality consists of several fossilized turtle shells eroding out of the portion of Uinta Formation exposed along the south side of well pad #15-36. Fragments of what appear to be "a small fossil lizard jaw". This locality is considered SIGNIFICANT.

Locality 42Dc225v. This locality consists of fragmented pieces of turtle shell scattered about the southwest portion of well #10-36. This material may have been transported by water action to this location from the outcrop immediately to the south. Additionally, a number of turtle shell fragments were found around the hill northeast of the well pad. This locality is considered IMPORTANT.

In addition to these searches, the NRHP was consulted prior to conducting the survey. No NRHP listed or determined eligible sites were found to be in the vicinity of the current project area.

ENVIRONMENT

The project area lies in dissected tablelands south of Pleasant Valley. The elevation of the project area ranges from approximately 5370 to 5380 feet a.s.l. Sediments consist of tan to light brown sandy loam with angular fragments of sandstone and limestone visible on the surface. Vegetation in the survey area consists of shadscale community species. Noted species include winterfat, cheat grass, four-wing salt brush, shadscale, sagebrush, prickly pear cactus, buckwheat, and bunch grass. There are no permanent water sources in the immediate project area. However, many seasonally flowing drainages and washes are present in the general vicinity. These seasonal water sources were likely the primary sources of water in this area historically. Natural disturbance in the area is primarily in the form of aeolian movement of sand and some water erosion. Cultural disturbance includes grazing, pre-existing well pad locations and a number of access roads leading to the well locations.

METHODOLOGY

The project area consists of one 40,469 m² (10 acre) parcels of land 201-by-201 m (660-by-660 ft) centered on the proposed well heads. The proposed well pad is located along an existing roadway. The well pad was inventoried by Heather M. Weymouth and Lynita S. Langley walking parallel transects spaced no more than 15 meters apart. The area surveyed during this project totaled 40,469 m² (10 acres)

RESULTS

No cultural resources sites nor paleontological localities were found as a result of this inventory.

RECOMMENDATIONS

Since there were no cultural resources nor paleontological resources found, cultural and paleontological clearance is recommended for the proposed project.

This investigation was conducted with techniques which are considered to be adequate for evaluating cultural and paleontological resources which could be adversely affected by the project. However, should such resources be discovered during construction, a report should be made immediately to the BLM District Archaeologist, Vernal District Office, Vernal, Utah.

JOHNSON WATER DISTRICT
R.R. 3 BOX 3188
ROOSEVELT, UT 84066
TELEPHONE (801) 722-2620


March 4, 1996

TO WHOM IT MAY CONCERN:

Inland Production Company has purchased a 3 inch water connection with Johnson Water District to supply Monument Butte oilfield.

Johnson Water District has given permission to Inland Production Company to use water from our system for the purpose of drilling and completing the Boundry Federal 13-19.

Sincerely,

A handwritten signature in cursive script, appearing to read "Karen Ashby".

Karen Ashby,
Secretary

**INLAND PRODUCTION COMPANY
BOUNDARY FEDERAL #13-19
SW/SW SECTION 19, T8S, R17E
DUCHESNE COUNTY, UTAH**

TEN POINT WELL PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' - 3030'
Green River	3030'
Wasatch	6500'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 3030' - 6400' - Oil

4. PROPOSED CASING PROGRAM

8 5/8", J-55, 24# w/ ST&C collars; set at 300' (New)
5 1/2", J-55, 17# w/ LT&C collars; set at TD (New)

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The operators minimum specifications for pressure control equipment are as follows:

A 8" Series 900 Hydril Bag type BOP and a 8" Double Ram Hydraulic unit with a closing unit will be utilized. Pressure test of BOPS's will be checked daily.

(See Exhibit F)

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

It is proposed that the well be drilled with fresh water through the Uinta Formation. From the top of the Green River @ 3000' \pm to TD, a fresh water/polymer system will be utilized. If necessary to control formation fluids, the system will be weighted with the addition of bentonite gel, and if conditions warrant, barite. Typically, this fresh water/polymer system will contain Total Dissolved Solids (TDS) of less than 3000 PPM. Neither potassium chloride or chromates will be utilized in the fluid system.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. TESTING, LOGGING AND CORING PROGRAMS:

No drill stem testing has been scheduled for this well. It is anticipated at this time that the logging will consist of a Dual Induction Laterolog, Compensated Neutron-Formation Density Log. Logs will run from TD to 3500'. Rotary diamond sidewall cores may be taken in prospective reservoirs. Logs will run from TD to 3500'. The cement log will be run from PBTd to cement top.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H₂S will be encountered in this area.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

It is anticipated that the drilling operations will commence in June, 1996 and take approximately eight days to drill.

**INLAND PRODUCTION COMPANY
BOUNDARY FEDERAL #13-19
SW/SW SECTION 19, T8S, R17E
DUCHESNE COUNTY, UTAH**

THIRTEEN POINT WELL PROGRAM

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Inland Production Company well location site Boundary Federal #13-19 located in the SW 1/4 SW 1/4 Section 19, T8S, R17E, S.L.B. & M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles \pm to the junction of this highway and Utah State Highway 53; proceed southerly along Utah State Highway 53 - 7.2 miles to location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 53 meets the existing dirt road, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County Crews.

The aforementioned dirt oilfield service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads required for access during the drilling, completion and production phase will be maintained at the standards required by the BLM or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

No access road is needed.

There will no culverts required along this access road. There will no water turnouts constructed along this road.

There are no fences encountered along this proposed road. There will no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

There is one (1) producing , and three (3) waiting on completion, Inland Production Co wells within a one (1) mile radius of this proposed location. See Exhibit "D".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery the well pad will be surrounded by a dike of sufficient capacity to contain at minimum the entire contents of the largest tank within the facility battery. The integrity of the dike will be maintained.

Tank batteries will be placed on a per Sundry Notice if the well is completed as a producer.

All permanent (on site for six (6) months or longer) structures constructed or installed (including pumping units) will be painted Desert Tan. All facilities will be painted within six months of installation.

Please see attached Sundry Notice and plat's for the proposed surface pipeline R.O.W.

5. LOCATION AND TYPE OF WATER SUPPLY

At the present time, it is anticipated that the water for this well will be transported by truck from our pre-approved Inland Production Company fresh water supply line located at the Gilsonite State #7-32 (SW/NE Sec. 32, T8S, R17E) location as indicated on Topographic Map -Exhibit "C".

In the event this water source is not used an alternate source will be used and all the necessary arrangements will be made with the proper authorities.

There will be no water well drilled at this site.

6. SOURCE OF CONSTRUCTION MATERIALS

See Location Layout Sheet - Exhibit "E".

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet - Exhibit "E".

A small reserve pit will be constructed from native soil and clay materials. However, in a departure from conventional oilfield practice, the volume and duration of fluid occupying this pit will be minimal. By applying currently available technology, a water processing unit will be employed to continuously recycle the drilling fluid as it is used, returning the fluid component to the drilling rig's steel tanks. The reserve pit will primarily receive the processed drill cuttings (wet sand, shale & rock) removed from the wellbore. Any drilling fluids which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed by the water recycling unit and then returned to the steel rig tanks. Furthermore, all drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be utilized in the reserve pit.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined in storage tanks. Inland requests temporary approval to transfer the produced water to Inland's nearby waterflood supply, for reinjection into the waterflood reservoirs via existing approved injection wells. Within 90 days of first production, a water analysis will be submitted to the Authorized Officer, along with an application for approval of this as a permanent disposal method.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet - Exhibit "E".

The reserve pit will be located on the east between stakes 5 & 6.

No flare pit will be used on this location

The stockpiled topsoil (first six (6) inches) will be stored on the south corner, between stakes 7 & 8.

No access road is needed.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) 39 inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be not more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be cemented and/or braced in such a manner to keep tight at all times.
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. PLANS FOR RESTORATION OF SURFACE

a) *Producing Location*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be re contoured to the approximated natural contours. The reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

When the drilling and completion phase ends, reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer. The seed mixture will be per B.L.M. and stated in the conditions of approval.

b) *Dry Hole Abandoned Location*

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the B.L.M. will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP** - Bureau of Land Management

12. **OTHER ADDITIONAL INFORMATION**

- a) Inland Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Inland is to immediately stop work that might further disturb such materials, and contact the Authorized Officer.
- b) Inland Production will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. On B.L.M. administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other possible hazardous chemicals.

There are no dwellings or facilities in the general area. There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location site. The Cultural Resource Survey will be submitted, as soon as it becomes available.

Additional Surface Stipulations

A silt catchment dam will not be constructed.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations. Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. Inland Production is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Inland Production Company or a contractor employed by Inland Production shall contact the B.L.M. office at (801) 789-1362, 48 hours prior to construction activities.

The B.L.M. office shall be notified upon site completion prior to moving on the drilling rig.

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Brad Mecham
Address: P.O. Box 1446 Roosevelt, Utah 84066
Telephone: (801) 722-5103

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of Well #13-19 SW/SW Section 19, Township 8S, Range 17E: Lease #UTU- 50376; Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

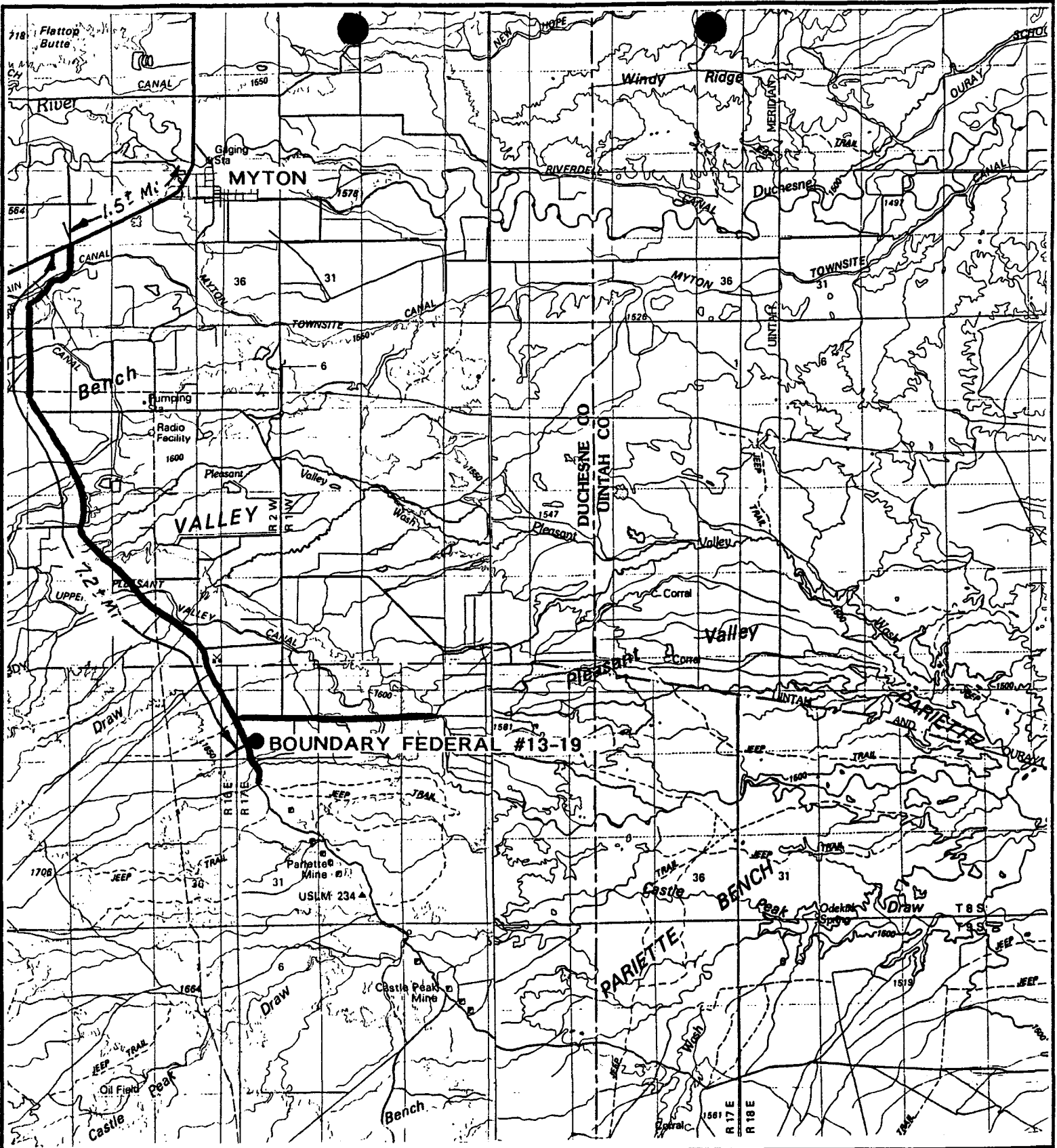
I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

3-15-96

Date

Brad Mecham

Brad Mecham
Operations Manager



TOPOGRAPHIC
MAP "A"



INLAND PRODUCTION COMPANY

BOUNDARY FEDERAL #13-19
SECTION 19, T8S, R17E, S.L.B.&M.

2 Mar '96

84-121-051

EXHIBIT C

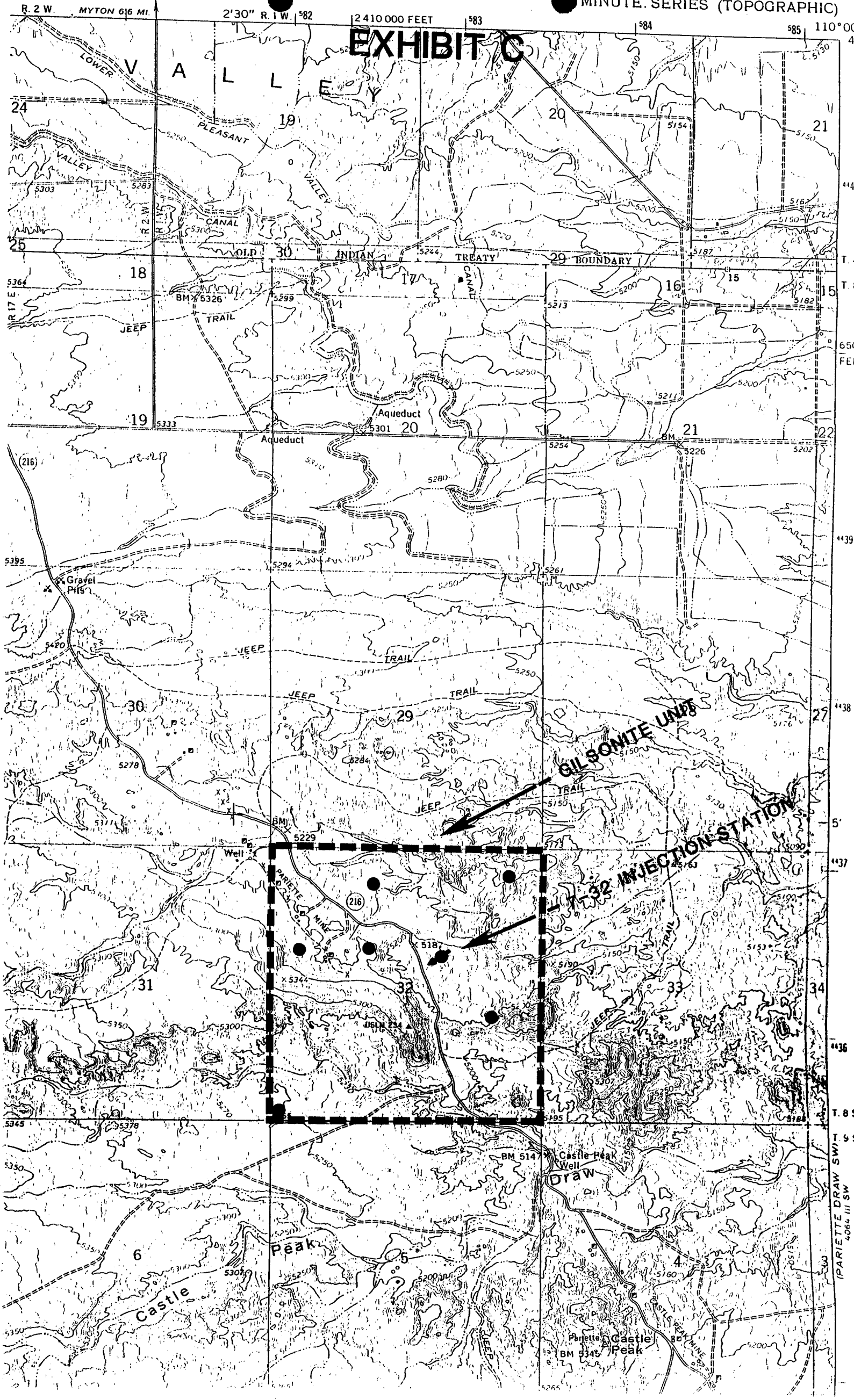
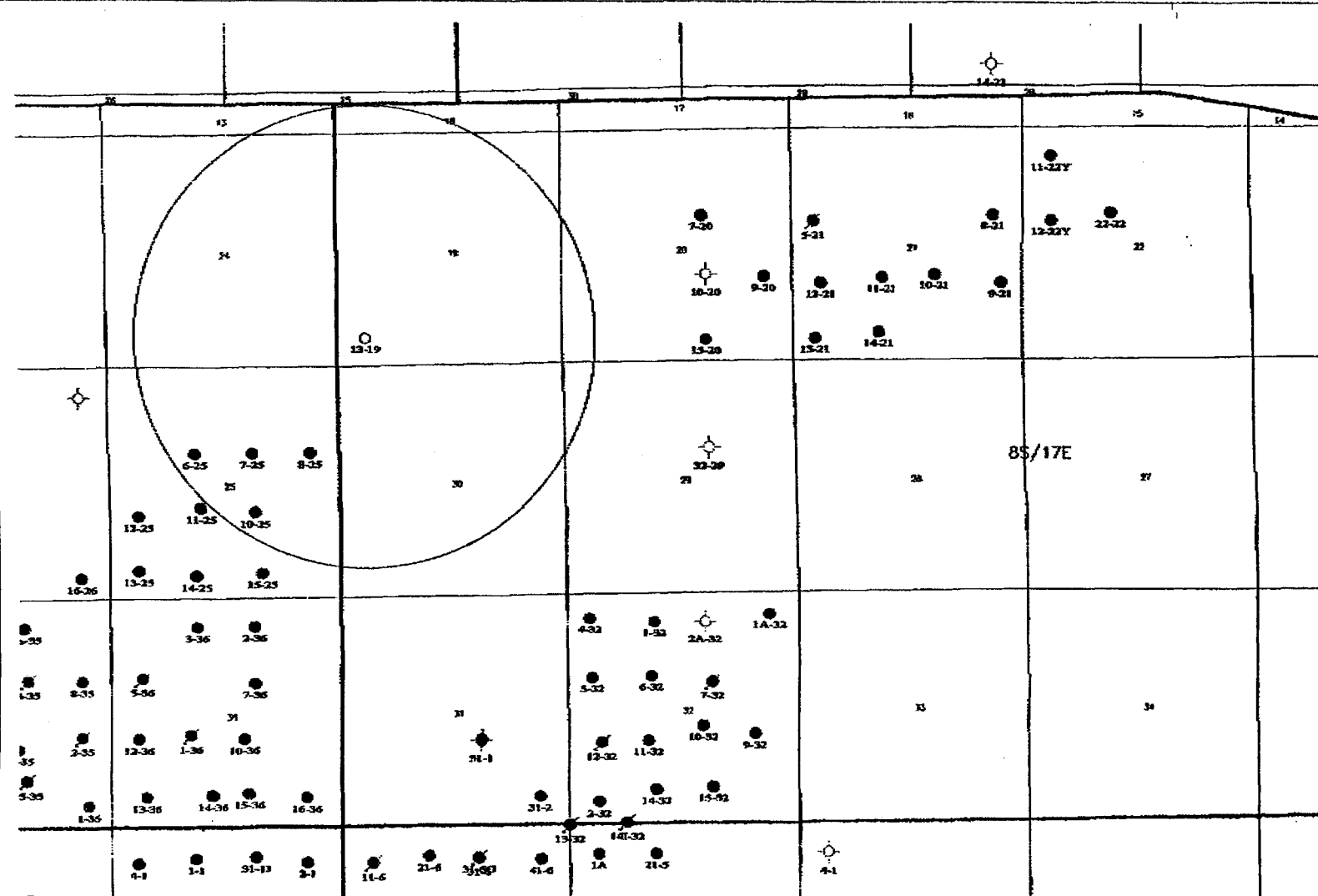


EXHIBIT "D"



475 17th Street Suite B300
Durant, Colorado 81012
Phone: (303) 252-0000

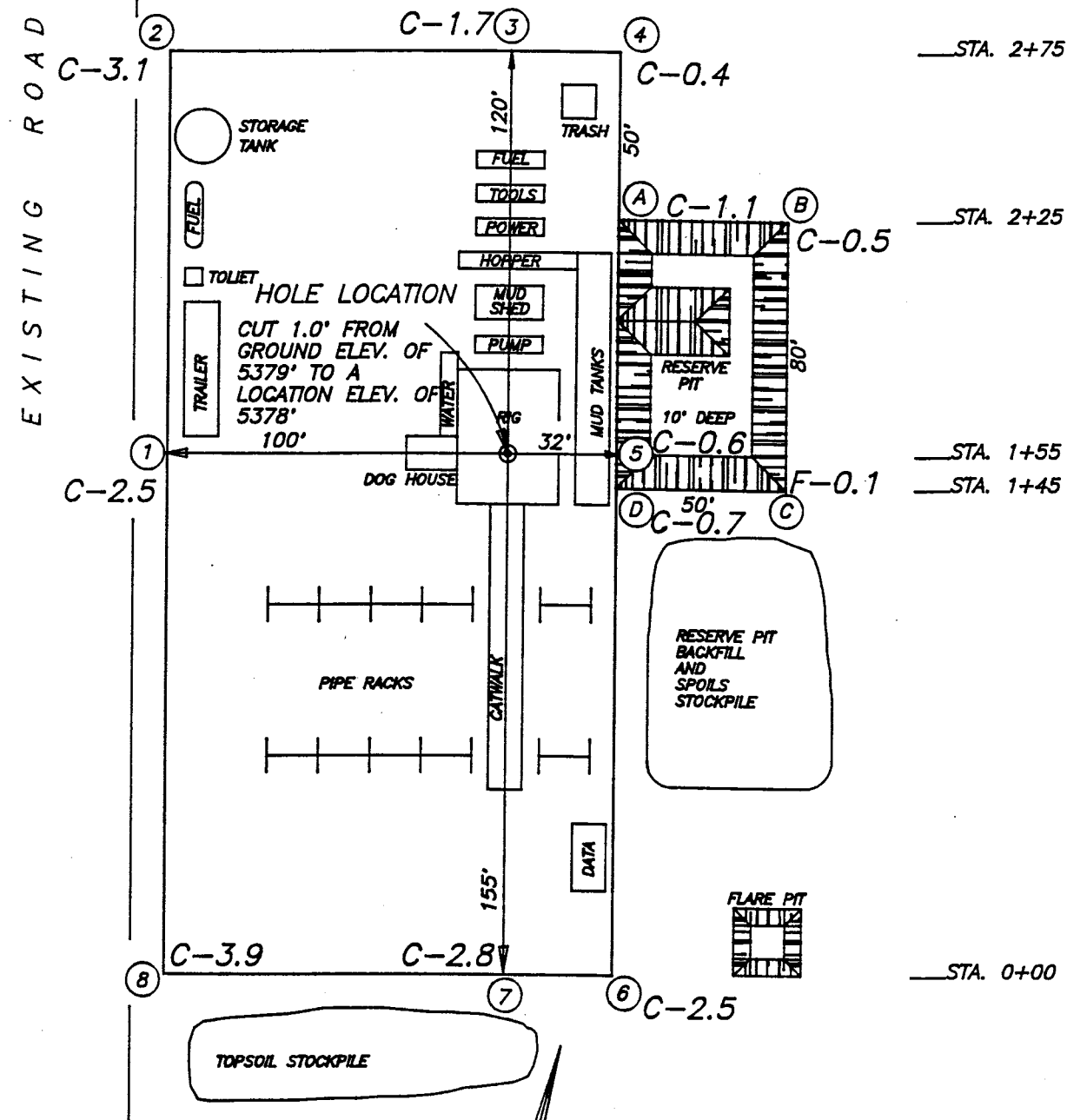
One Mile Radius
Boundary Federal 013-59
Duchene County, Utah

Date: 3-13-95

2a



INLAND PRODUCTION CO. WELL LAYOUT PLAT BOUNDARY FEDERAL #13-19

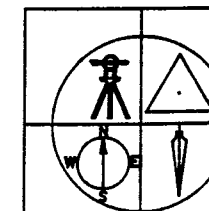
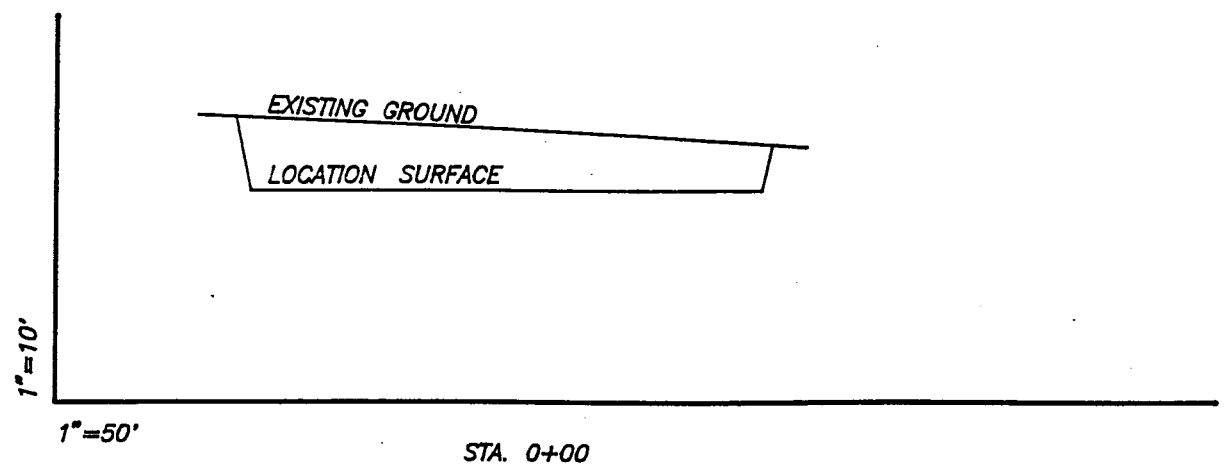
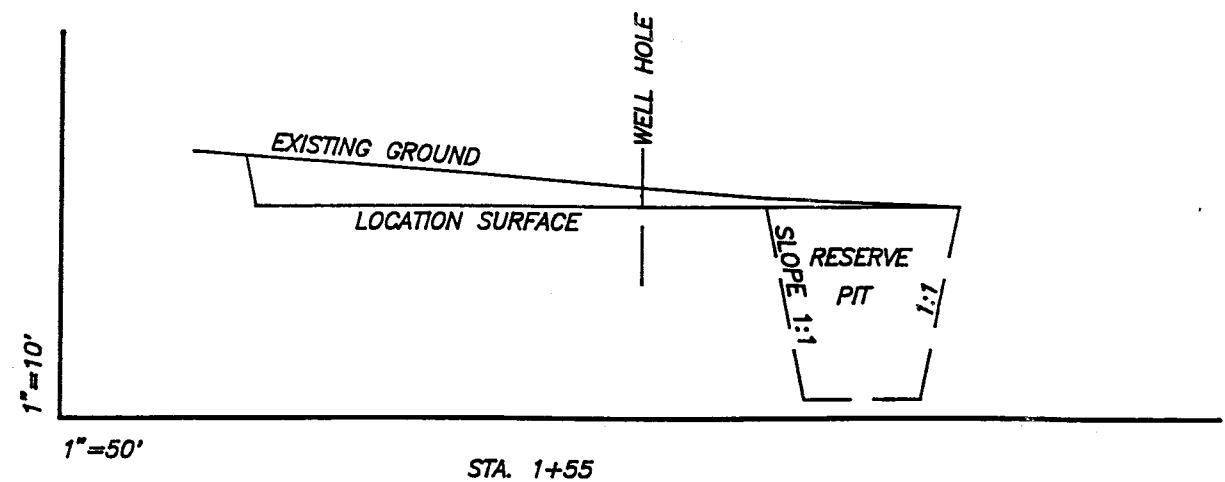
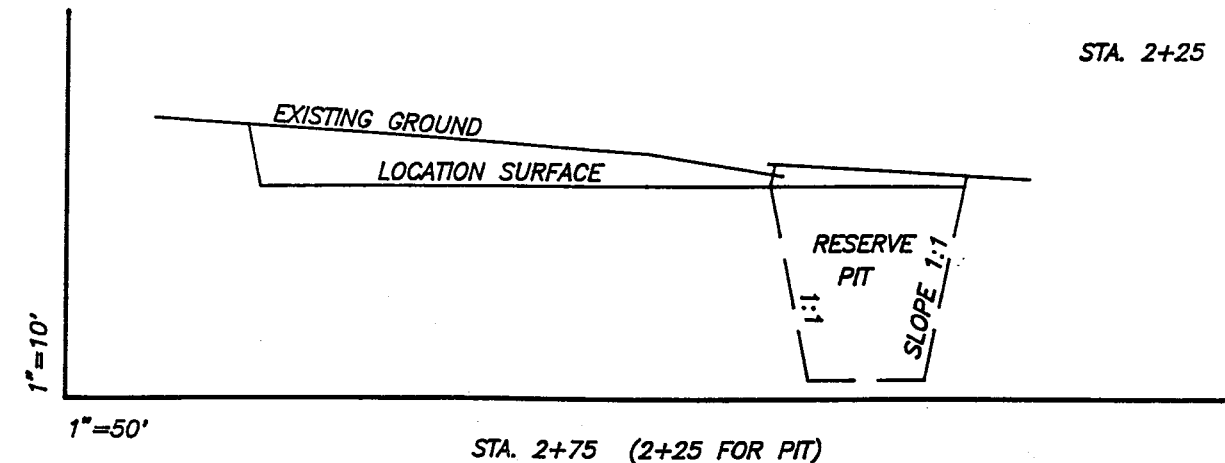


APPROXIMATE QUANTITIES

CUT: 4200 CU. YDS. (INCLUDES PIT)
FILL: 00 CU. YDS.

LOCATED IN THE SW1/4 OF THE SW1/4 OF SECTION 19,
TOWNSHIP 8 SOUTH, RANGE 17 EAST, S.L.B.&M.

STA. 2+25



JERRY D. ALLRED AND ASSOCIATES
Surveying and Engineering Consultants

121 NORTH CENTER STREET
P.O. BOX 975
DUCHESTER, UTAH 84021
(801) 738-5352

2 MARCH 1996

84-121-051

2-M SYSTEM

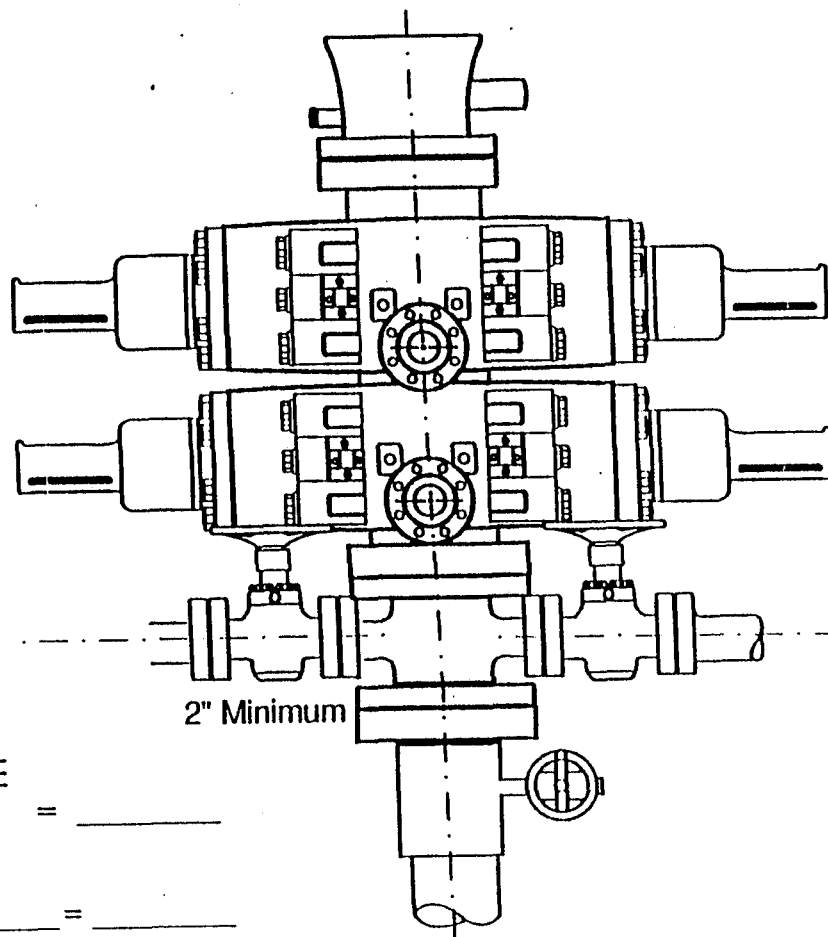
EXHIBIT F

RAM TYPE B.O.P.

Make:

Size:

Model:



2" Minimum

GAL TO CLOSE

Annular BOP = _____

Ramtype BOP

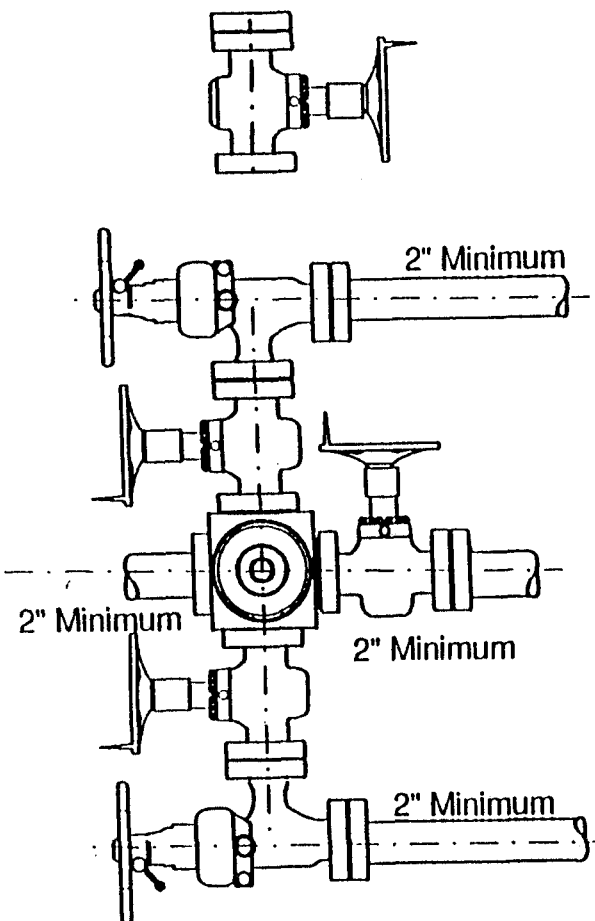
_____ Rams x _____ = _____

= _____ Gal.

_____ x 2 = _____ Total Gal.

Rounding off to the next higher
increment of 10 gal. would require

_____ Gal. (total fluid & nitro volume)



2" Minimum

2" Minimum

2" Minimum

2" Minimum

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/18/96

API NO. ASSIGNED: 43-013-31625

WELL NAME: BOUNDARY FEDERAL 13-19
OPERATOR: INLAND PRODUCTION COMPANY (N5160)

PROPOSED LOCATION:

SWSW 19 - T08S - R17E
SURFACE: 0742-FSL-0823-FWL
BOTTOM: 0742-FSL-0823-FWL
DUCHESNE COUNTY
UNDESIGNATED FIELD (002)

LEASE TYPE: FED
LEASE NUMBER: U - 50376

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Federal ☒ State ☐ Fee ☐
(Number 4488944)
☒ Potash (Y/N)
☒ Oil shale (Y/N)
☒ Water permit
(Number INTERVIEW WELL 7-22)
☒ RDCC Review (Y/N)
(Date: _____)

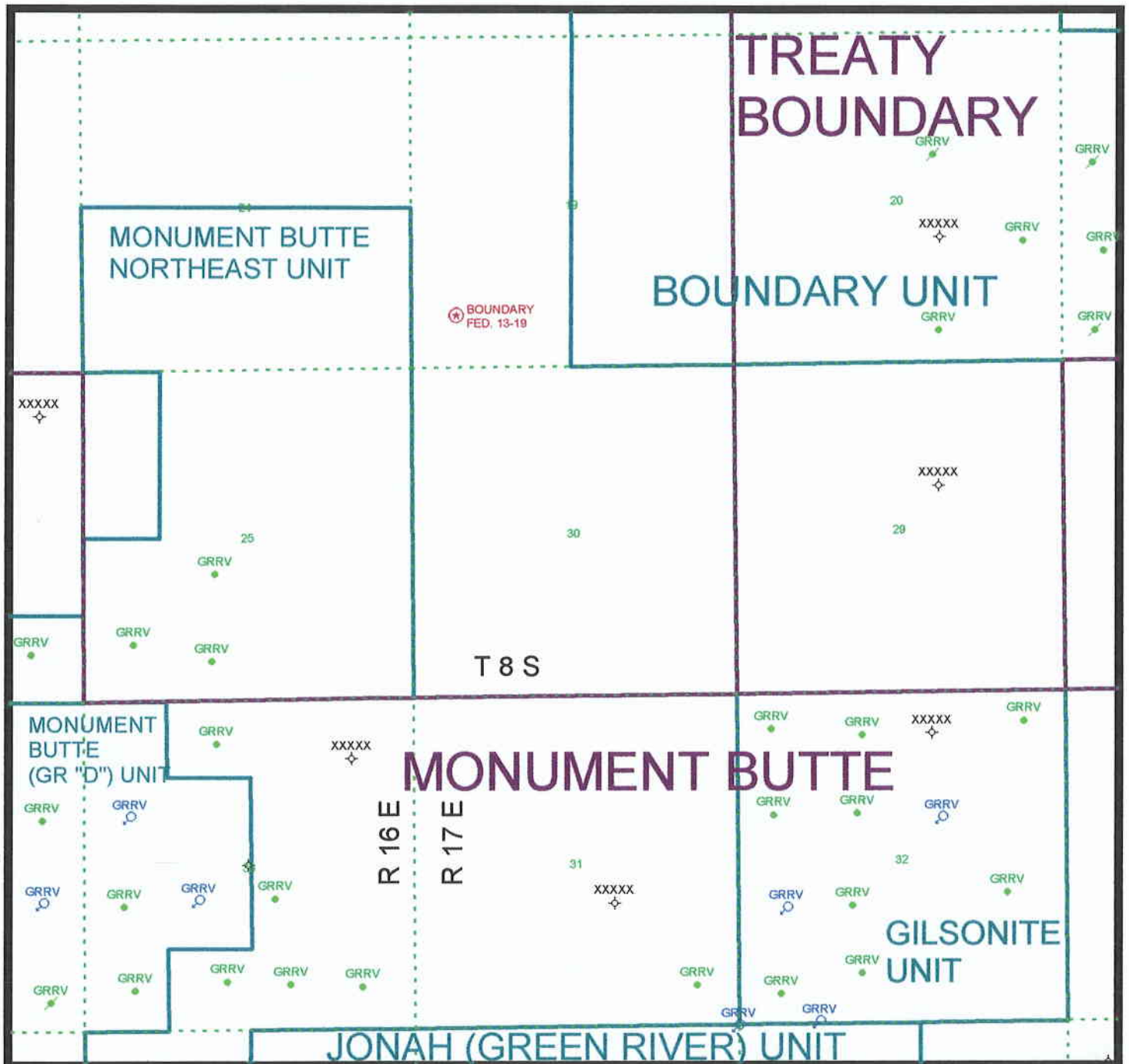
LOCATION AND SITING:

___ R649-2-3. Unit: _____
☒ R649-3-2. General.
___ R649-3-3. Exception.
___ Drilling Unit.
___ Board Cause no: _____
___ Date: _____

COMMENTS: _____

STIPULATIONS: _____

INLAND PRODUCTION
DEVELOPMENT DRILLING
SEC. 19, T8S, R17E
DUCHESNE COUNTY UAC R649-3-2



PREPARED:
DATE: 21-MAR-96

STATE OF UTAH, DIV OF OIL, GAS & MINERALS

Operator: INLAND PRODUCTION CO	Well Name: BOUNDARY FED 13-19
Project ID: 43-013-31625	Location: SEC. 19 - T08S - R17E

Design Parameters:

Mud weight (10.00 ppg) : 0.519 psi/ft
 Shut in surface pressure : 2892 psi
 Internal gradient (burst) : 0.075 psi/ft
 Annular gradient (burst) : 0.000 psi/ft
 Tensile load is determined using air weight
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125
 Burst : 1.00
 8 Round : 1.80 (J)
 Buttress : 1.60 (J)
 Other : 1.50 (J)
 Body Yield : 1.50 (B)

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost	
1	6,500	5.500	17.00	J-55	LT&C	6,500	4.767		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	3377	4910	1.454	3377	5320	1.58	110.50	247	2.24 J

Prepared by : MATTHEWS, Salt Lake City, Utah
 Date : 04-04-1996
 Remarks :

Minimum segment length for the 6,500 foot well is 1,500 feet.
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 119°F (Surface 74°F , BHT 165°F & temp. gradient 1.400°/100 ft.)
 String type: Production
 The mud gradient and bottom hole pressures (for burst) are 0.519 psi/ft and 3,377 psi, respectively.

NOTE: The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - collapse (with evacuated casing), 1.0 - (uniaxial) burst, 1.8 - API 8rd tension, 1.6 - buttress tension, 1.5 - body yield tension, and 1.6 - EUE 8rd tension. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.
 Costs for this design are based on a 1987 pricing model. (Version 1.07)



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

April 4, 1996

Inland Production Company
P.O. Box 1446
Roosevelt, Utah 84066

Re: Boundry Federal #13-19 Well, 742' FSL, 823' FWL, SW SW, Sec. 19, T. 8 S.,
R. 17 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31625.

Sincerely,

R. J. Firth
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

WAPD

Operator: Inland Production Company
Well Name & Number: Boundary Federal #13-19
API Number: 43-013-31625
Lease: U-50376
Location: SW SW Sec. 19 T. 8 S. R. 17 E.

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

DOGMA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

P.O. Box 1446 Roosevelt, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

SW/SW

742' FSL & 823' FWL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

7.2 miles south of Myton, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

742'

16. NO. OF ACRES IN LEASE

1280.93

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1483'

19. PROPOSED DEPTH

6500'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5379' GR

22. APPROX. DATE WORK WILL START*

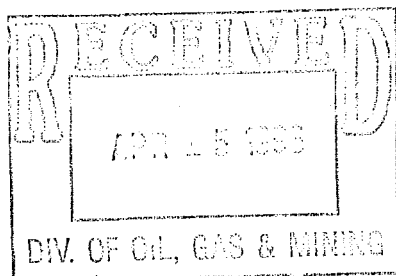
2nd quarter 1996

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	120 sx Class G+2% CaCl+2% Gel
7 7/8	5 1/2	15.5#	TD	400 sx Hifill followed by
				330 sx Class G w/ 10% CaCl

The actual cement volumes will be calculated off of the open hole logs,
plus 15% excess.



RECEIVED
MAR 19 1996

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Brad Mecham

TITLE Operations Manager

DATE 3/13/96

(This space for Federal or State office use)

PERMIT NO. 42-013-31625

APPROVAL DATE

Anthony ASSISTANT DISTRICT
MANAGER MINERALS

DATE APR 11 1996

APPROVED BY [Signature]

CONDITIONS OF APPROVAL, IF ANY

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

44080-6111-086

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Boundry Federal 13-19

API Number: 43-013-31625

Lease Number: U - 50376

Location: SWSW Sec. 19 T. 8S R. 17E

NOTIFICATION REQUIREMENTS

- | | | |
|------------------------------------|---|---|
| Location Construction | - | at least forty-eight (48) hours prior to construction of location and access roads. |
| Location Completion | - | prior to moving on the drilling rig. |
| Spud Notice | - | at least twenty-four (24) hours prior to spudding the well. |
| Casing String and
Cementing | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings. |
| BOP and Related
Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests. |
| First Production
Notice | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water, identified at 384 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to ± 184 ft., and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office. A Dual Lateral log will be run from TD to the base of the surface casing. A Sonic log will be run from TD to a minimum of 200 ft above the top of the Mahogany oil shale.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted on initial meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in

accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne P. Bankert (801) 789-4170
Petroleum Engineer

BLM FAX Machine (801) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

-Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

-All vehicle travel will be confined to existing access road rights-of-way.

-Topsoil should be windrowed on the south and north ends of the location instead of being piled as shown on the well layout plate.

-No surface disturbing activities, construction, or drilling operations, including the initial completion activities, are to occur on the well, access road, or location from March 15 through August 15. This restriction is to protect Mountain Plovers and Burrowing Owls located in the surrounding area. The restriction does not apply to maintenance and operation of existing wells and facilities. Waivers, exceptions, or modifications to this Condition of Approval may be specifically approved in writing by the authorized officer of the Bureau of Land Management if either the resource values change or the lessee/operator demonstrates that adverse impacts can be mitigated.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND

Well Name: BOUNDRY FEDERAL 13-19

Api No. 43-013-31625

Section 19 Township 8S Range 17E County DUCHESNE

Drilling Contractor APOLLO

Rig #: ?

SPUDDED:

Date: 5/6/96

Time:

How: DRY HOLE

Drilling will commence:

Reported by: CHERYL

Telephone #:

Date: 5/6/96 Signed: MKH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

P.O. Box 1446 Roosevelt, Utah 84066 (801)722-5103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/SW 742' FSL & 823' FWL

Sec. 19, T8S, R17E

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Boundary Federal 13-19

9. API Well No.

43-013-31625

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Spud Notification

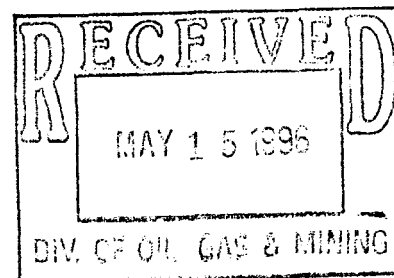
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 12 1/4" hole w/ Leon Ross Rathole Rig to 303'. Drilled Mouse & Rat hole. Cmt w/ 120 sx prem plus w/ 2% CC, 2% Gel & 1/4# /sk flocele.

SPUD 5/6/96



14. I hereby certify that the foregoing is true and correct

Signed

Cheryl Cameron

Title Regulatory Compliance Specialist Date 5/8/96

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budgeted Bureau No. 1004-0135

Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas well <input type="checkbox"/> Other	5. Lease Designation and Serial No.
2. Name of Operator Inland Production Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 790233 Vernal, UT 84079 Phone No. (801) 789-1866	7. If unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SW/SW 742' FSL & 823' FWL Sec. 19, T8S, R17E	8. Well Name and No. Boundary Federal #13-19
	9. API Well No. 43-013-31625
	10. Field and Pool, or Exploratory Area Monument Butte
	11. County or Parish, State Duchesne, UT

12 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing repair	<input type="checkbox"/> Water Shut-off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Weekly Status</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

WEEKLY STATUS REPORT FOR WEEK OF 5/22/97 - 5/28/97:

Drilled 7 7/8" hole w/ Caza, Rig #59 from 305' - 6300'. Run 6262.16' of 5 1/2" 15.5# LT&C csg. Pump 20 bbls dye wtr & 20 bbls gel. Cmt w/ 490 sx Hibond V, 3% salt, .3% EX-1, 10% gel, 2% Microbond, 1#/sk granulite, 3#/sk silica 11.0 ppg, 3.0 ft/sk yield. Followed by 400 sx Thixo w/ 10% CalSeal 14.2 ppg 1.58 ft/sk yield. Good returns to surface w/ partial returns during last 15 bbls of displacement. No dye wtr to surface. RDMOL.

14. I hereby certify that the foregoing is true and correct

Signed

Cheryl Cameron

Title

Regulatory Compliance Specialist

Date

5/30/97

(This space of Federal or State office use.)

Approved by

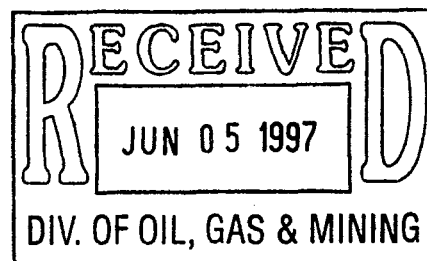
Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR Inland Production Company
ADDRESS P.O. Box 1446
Roosevelt, Utah 84066

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG				
A	99999	11913	43-013-31615	Tar Sands Federal #8-31	SENE	31	8S	17E	Duchesne	4/29/96	4/29/96	
WELL 1 COMMENTS: <i>Prev. added 5-6-96. Lec</i>												
A	99999	11935	43-013-31625	Boundary Federal #13-19	SWSW	19	8S	17E	Duchesne	5/6/96	5/6/96	
WELL 2 COMMENTS: <i>Entity added 6-17-96. Lec</i>												
WELL 3 COMMENTS:												
WELL 4 COMMENTS:												
WELL 5 COMMENTS:												

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- C - Add new well to existing entity (group or unit well)
- D - Re-assign well from one existing entity to another existing entity
- E - Re-assign well from one existing entity to a new entity
- F - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

13/391

Cheryl Cameron
Signature: Cheryl Cameron

Regulatory Compliance 5/2/96
Title Specialist Date

Phone No. (801) 722-5103



May 2, 1996

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
Three Triad Center Suite 350
Salt Lake City Utah 84180-1203

ATTENTION: Lisha Cordova

RE: Tar Sands Federal #8-31

Dear Lisha,

I am faxing Entity Action Form - 6, for the new Entity No., on the above referenced location.

Please call me at your convenience, with the new numbers at (801) 722-5103.

Sincerely,

**Cheryl Cameron
Regulatory Compliance Specialist**

/cc

Enclosures

INLAND PRODUCTION COMPANY
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL

SAND WASH UNIT #441000

BOUNDARY FEDERAL #13-19

LEASE NO. U-50376

SEPTEMBER 29, 1997

Case 229-2



STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Inland Production Company
ADDRESS P.O. Box 790233 Vernal, UT 84079

Well name and number: Boundary Federal #13-19

Field or Unit name: Sand Wash Unit # 441000 Lease no. U-50376

Well location: QQ SWSW section 19 township 8S range 17E county Duchesne

Is this application for expansion of an existing project? . Yes ☐ No ☒

Will the proposed well be used for:

Enhanced Recovery?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Disposal?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Storage?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Is this application for a new well to be drilled? Yes ☐ No ☒

If this application is for an existing well,
has a casing test been performed on the well? Yes ☐ No ☒

Date of test: _____

API number: 43-013-31625

Proposed injection interval from 5150' to 5600'

Proposed maximum injection: rate 500 BPD pressure To be determined upon testing psig

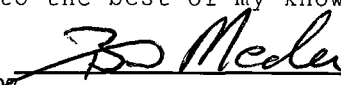
Proposed injection zone contains ☐ oil, ☐ gas, and/or ☐ fresh water within 1/2 mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Exhibits "A" through "G-2"

I certify that this report is true and complete to the best of my knowledge.

Name Brad Mecham

Signature 

Title District Manager

Date 9/29/97

Phone No. (801) 722-5103

(State use only)

Application approved by _____ Title _____

Approval Date _____

Comments:

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS
RULE R615-5-1**

- 1) Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.
- 2) A request for agency action for authority for the injection of gas, liquefied petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:

2.1. *The name and address of the operator of the project;*

Answer: Inland Production Company
P.O. Box 1446
W. Poleline Road
Roosevelt, Utah 84066

2.2. *A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-quarter mile radius of the project area;*

Answer: Reference Exhibit "A".

2.3. *A full description of the particular operation for which approval is requested;*

Answer: To approve the conversion of the Boundary Federal #13-19 from a producing oil well to a water injection well in the Boundary area in the Monument Butte Field; and to approve the installation of an injection line. The line would leave the injection facility at the Monument Butte Federal #15-24, and proceed easterly approximately 1320' \pm , to the proposed Boundary Federal #13-19 injection well. The proposed injection line would be a 3" coated steel pipe, buried 5' below surface and would provide injection water to the Boundary Federal #13-19, from our existing water injection line. Reference Exhibit "B".

2.4. *A description of the pools from which the identified wells are producing or have produced;*

Answer: The proposed injection well will inject into the Green River Formation.

2.5. *The names, description and depth of the pool or pools to be affected;*

Answer: The Green River Formation pool targeted for injection is the D sand with a gamma ray derived top estimated @ 5175'. The injection zone is a porous and permeable lenticular calcareous sandstone. The porosity of the sandstone is intergranular. The confining impermeable stratum directly above estimated at (5000',) and below estimated at (6000') the injection zones are composed of tight, moderately calcareous lacustrine shale.

2.6. *A copy of a log of a representative well completed in the pool;*

Answer: Referenced log Boundary Federal #13-19 to be submitted to the Utah Division of Oil, Gas & Mining when it becomes available, after completion.

- 2.7. *A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily;*

Answer: Culinary water from Johnson Water District supply line.

Estimated Injection Rate:	Estimated Average	300 BPD
	Estimated Maximum	1000 BPD

- 2.8. *A list of all operators or owners and surface owners within a one-quarter mile radius of the proposed project;*

Answer: Reference Exhibit "C".

- 2.9. *An affidavit certifying that said operators or owners and surface owners within a one-quarter mile radius have been provided a copy of the petition for injection;*

Answer: Reference Exhibit "D".

- 2.10. *Any additional information the Board may determine is necessary to adequately review the petition.*

Answer: Inland will supply any additional information requested by the Utah Division of Oil Gas & Mining Board.

- 4.0. *Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the board after notice and hearing or by administrative approval.*

Answer: This proposed injection well is within the Boundary area in the Monument Butte Field and the request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL, STORAGE
AND ENHANCED RECOVERY WELLS
SECTION V - RULE 615-5-2**

- 1) Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.
- 2) The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:

2.1. *A plat showing the location of the injection well, all abandoned or active wells within a one-quarter mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-quarter mile radius of the proposed injection well;*

Answer: Reference Exhibits "A" and "C".

2.2. *Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity;*

Answer: All logs are on file with the Utah Division of Oil Gas & Mining.

2.3. *A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented;*

Answer: A copy of the cement bond log will be submitted with the Utah Division of Oil, Gas & Mining upon completion of the well.

2.4. *Copies of log already on file with the Division should be referenced, but need not to be refiled.*

Answer: All copies of logs will be submitted with the Utah Division of Oil, Gas & Mining, When they become available after completion of the well.

2.5. *A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well;*

Answer: The casing program is 8-5/8" 24# J-55 surface casing run to 285.69' GL, and the 5 1/2" casing from surface to 6300.38'. A casing integrity test will be conducted at time of conversion. Reference Exhibits "E-1" through "E-3".

2.6. *A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.*

Answer: Culinary water from Johnson water line at our pre approved Boundary supply line. Reference Exhibit "B". Estimated Injection Rate:

Average	300 BPD
Maximum	1000 BPD

2.7. *Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.*

Answer: A standard laboratory analysis of (1) the fluid to be injected (Johnson water), (2)

the fluid in the formation into which the fluid is being injected, and (3) the compatibility of the fluids. Reference Exhibits "F-1" through "F-4"

2.8. *The proposed average and maximum injection pressures;*

Answer: Proposed average and maximum injection pressures;

The proposed average and maximum injection pressure for the Boundary Federal #13-19 (estimated) averages approximately .72 psig/ft. (ISIP estimated @ 1650)

2.9. *Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata;*

Answer: The frac gradient for the Boundary Federal #13-19, for proposed zones (5150'- 5600') averages approximately .72 psig/ft. The maximum injection pressures will be kept below this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. Reference Exhibit "G."

Proposed Maximum Injection Pressure:

To be determined upon testing.

2.10. *Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent;*

Answer: In the Boundary Federal #13-19, the injection zone is in the D sand (5150'-5600',) and is contained within the Douglas Creek member of the Green River Formation. The reservoir is a very fine grain sandstone with minor interbedded shale streaks. The estimated average porosity is 14%; and the estimated fracture pressure to be determined upon testing, after completion.

2.11. *A review of the mechanical condition of each well within a one-quarter mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals;*

Answer: Exhibits "E-1" through "E-3".

The injection system will be equipped with high and low pressure shut-down devices which will automatically shut-in injection waters if a system blockage or leakage occurs. One way check valves will also insure proper flow management. Relief valves will also be utilized for high pressure relief.

2.12. *An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-quarter mile radius of the proposed injection well;*

Answer: Exhibit "D".

2.13. *Any other additional information that the Board or Division may determine is necessary to adequately review the application.*

Answer: Inland Production Company will await review of this application and additional information will be submitted if required.

3) Applications for injection wells which are within a recovery project area will be considered for approval.

3.1. Pursuant to Rule 615-5-1-3

3.2. Subsequent to Board approval of a recovery project pursuant to Rule 615-5-1-3.

4) Approval of an injection well is subject to the requirements of Rule 615-5-4, if the proposed injection interval can be classified as an USDW.

5) In addition to the requirements of this section, the provisions of Rule 615-3-1, R615-3-4, R615-3-24, R615-3-32, R615-8-1 and R615-10 apply to all Class II injection wells.

INLAND PRODUCTION COMPANY

**Boundary Federal #13-19
SW/SW Sec. 19, T8S, R17E
Duchesne County, Utah**

PLUGGING & ABANDONMENT PLAN

The plugging and abandonment plan consists of the following plugs:

- PLUG #1:** Set 150' balanced plug inside 5 ½" csg from 3850' - 3650'. Circ well to 2200' w/ 9.2 PPG fluid.
- PLUG #2:** Set 150' balanced plug inside 5 ½" csg from 2400'-2200'. Circ well to 320' w/ 9.2 PPG fluid.
- PLUG #3:** Perf 2' @ 2 spf 50' below the surface csg shoe @ 320'. RIH w/ tbg to 50' above the Surface csg shoe @ 220', circ cmt to surface. Circ to surface w/ 9.2 ppg plugging gel.
- PLUG #4:** 10 sx plug @ surface.

Install dry hole marker & restore location.

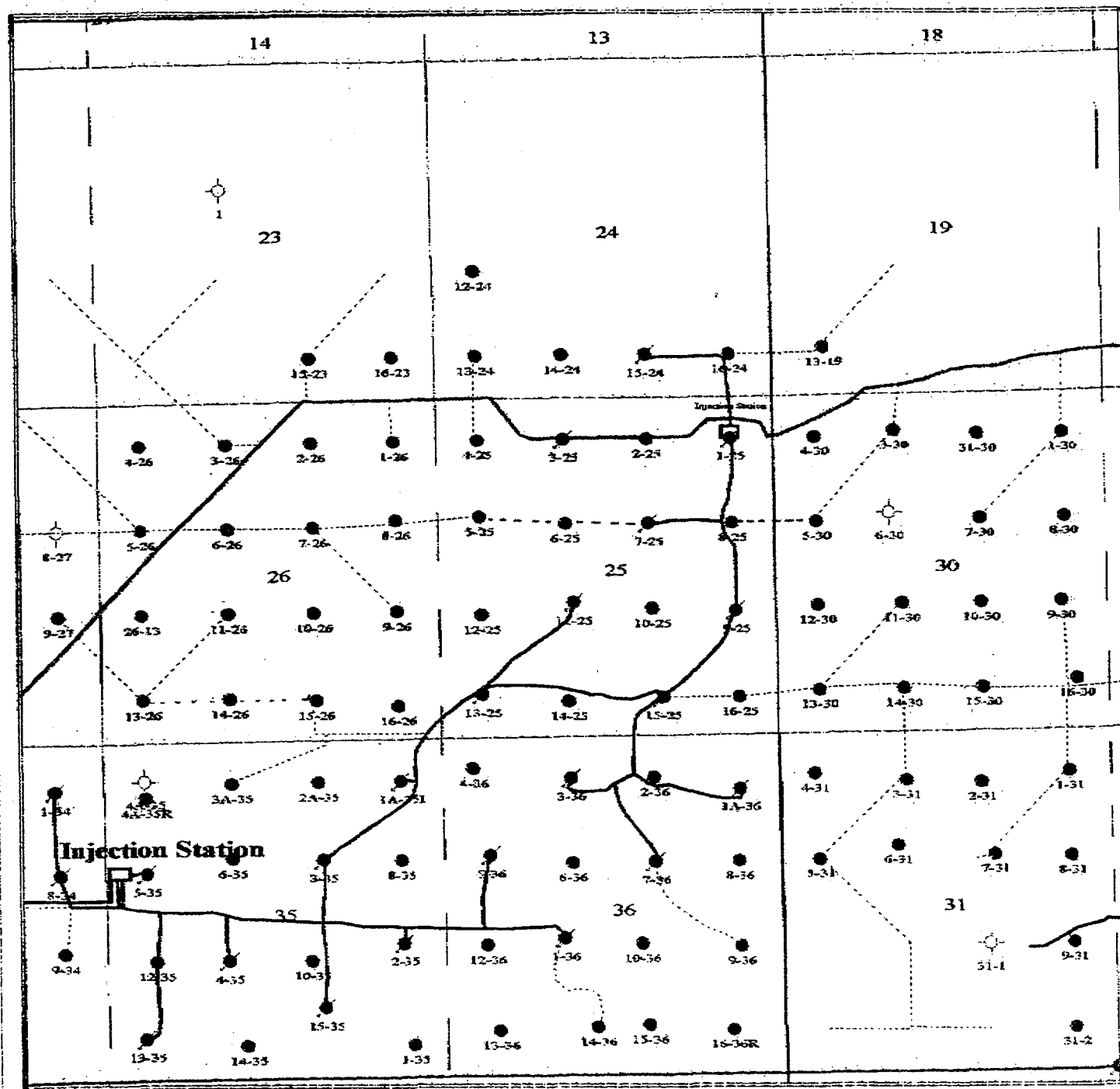


EXHIBIT "C"

Tract	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights Grazing Rights Leased by
1	Township 8 South, Range 17 East Section 17: All Section 18: Lots 1 & 2 Section 19: E/2, SW/4 Section 20: All Section 21: NW/4, S/2	U-50376 HBP	Inland Production Company	(Surface Rights) USA (Grazing Rights) Elmer Moon & Sons
2.	Township 8 South, Range 16 East Section 24: S/2 Section 25: NE/4, E/2NW/4, S/2 Section 26: S/2SE/4	U-67170 HBP	Inland Production Company	(Surface Rights) USA (Grazing Rights) Elmer Moon & Sons

Tract	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights Grazing Rights Leased by
3.	Township 8 South, Range 17 East Section 18: Lots 3, 4 Section 19: Lots 1, 2, E/2NW/4 (Excluding Patent #880415) Section 29: All Section 30: Lots 1-14, E/2NE/4, E/2SW/4, SW/4SE/4 Section 31: Lots 1-5, W/2E/2, SE/4NE/4, E/2W/2, NE/4SE/4	UTU-74869	Inland Production Company	(Surface Rights) USA (Grazing Rights) Elmer Moon & Sons
4.	Township 8 South, Range 17 East Section 19: That part of the SW/4 containing the Raven, Blackbird and Brunette patented mining claims.	Kaiser-Francis Oil Company		(Surface Rights) Kaiser-Francis Oil Company

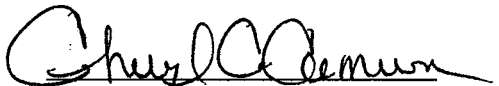
EXHIBIT "D"

RE: Application for Approval of Class II Injection Well
Boundary Federal #13-19.

I certify that a copy of the application has been provided to all surface owners within a one-quarter mile radius of the proposed injection well.


INLAND PRODUCTION COMPANY
Brad Mechem
District Manager

Sworn to and subscribed before me this 6 day of October 1997.


Notary Public in and for the State of Utah

Boundary Federal #13-19

Spud Date: 6/5/23/97
Put on Production: --/--/--
GL: 5379' KB: 5392'

Initial Production: BOPD,
MCFPD, BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (287.64')
DEPTH LANDED: 285.69'(GL)
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 144 jts. (6146.77')
DEPTH LANDED: 6140.77'
HOLE SIZE: 7-7/8"
CEMENT DATA: 320 sk Hybond mixed & 340 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBINGSUCKER RODSFRAC JOBPERFORATION RECORD

Inland Resources Inc.

Boundary Federal #13-19

742 FSL 823 FWL

SWSW Section 19-T8S-R17E

Duchesne Co, Utah

API #43-013-31625; Lease #U-50376

TD @ 6300'

Boundary Federal #13-19

Spud Date: 6/5/23/97
Put on Injection: --/--/--
GL: 5379' KB: 5392'

Initial Production: BOPD,
MCFPD, BWPD

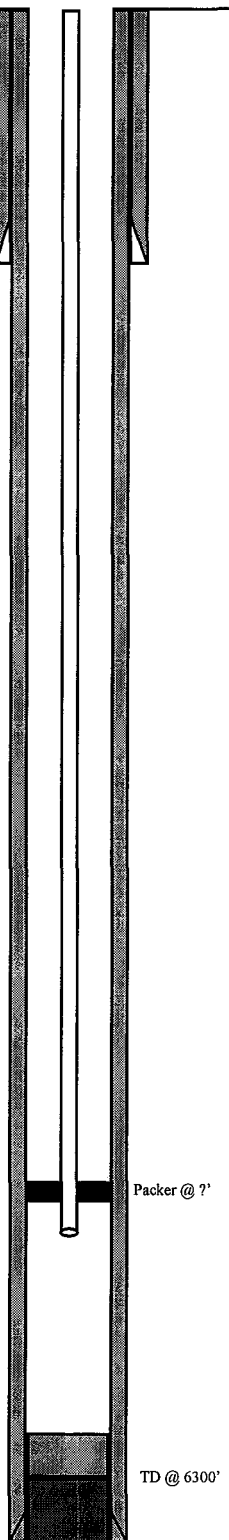
Proposed Injection Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (287.64')
DEPTH LANDED: 285.69'(GL)
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 144 jts. (6146.77')
DEPTH LANDED: 6140.77'
HOLE SIZE: 7-7/8"
CEMENT DATA: 320 sk Hybond mixed & 340 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBINGSUCKER RODSFRAC JOBPERFORATION RECORD

Inland Resources Inc.

Boundary Federal #13-19

742 FSL 823 FWL

SWSW Section 19-T8S-R17E

Duchesne Co, Utah

API #43-013-31625; Lease #U-50376

Boundary Federal #13-19

Spud Date: 6/5/23/97
 Plugged: --/--/--
 GL: 5379' KB: 5392'

Initial Production: BOPD,
 MCFPD, BWPD

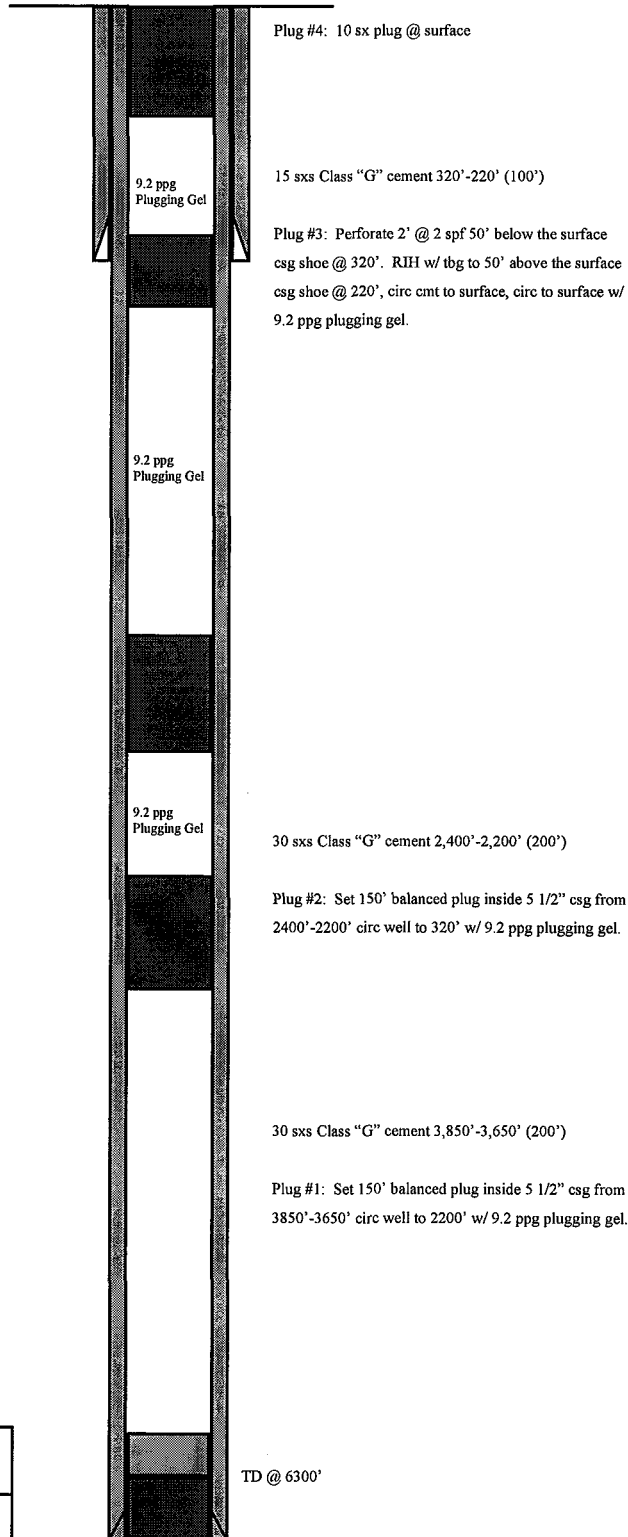
Proposed Plugging Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (287.64')
 DEPTH LANDED: 285.69'(GL)
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Premium cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 149 jts. (6262.16')
 DEPTH LANDED: 6300.38'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 490 sk Hibond mixed & 400 sxs thixotropic
 CEMENT TOP AT: Surface per CBL

TUBINGSUCKER RODS

Inland Resources Inc.

Boundary Federal #13-19

742 FSL 823 FWL

SWSW Section 19-T8S-R17E

Duchesne Co, Utah

API #43-013-31625; Lease #U-50376

UNICHEM

A Division of BJ Services

P.O. Box 217
Roosevelt, Utah 84066Office (801) 722-5066
Fax (801) 722-5727**WATER ANALYSIS REPORT**

Company INLAND Address _____ Date 02-03-97
 Source DE 7.21 Date Sampled 01-30-97 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>8.8</u>		
2. H ₂ S (Qualitative)	<u>3.0</u>		
3. Specific Gravity	<u>1.004</u>		
4. Dissolved Solids		<u>11,376</u>	
5. Alkalinity (CaCO ₃)		<u>120</u>	
6. Bicarbonate (HCO ₃)		<u>1,500</u>	÷ 61 <u>25</u> HCO ₃
7. Chlorides (Cl)		<u>5,300</u>	÷ 35.5 <u>149</u> Cl
8. Sulfates (SO ₄)		<u>360</u>	÷ 48 <u>8</u> SO ₄
9. Calcium (Ca)		<u>16</u>	÷ 20 <u>1</u> Ca
10. Magnesium (Mg)		<u>2</u>	÷ 12.2 <u>0</u> Mg
11. Total Hardness (CaCO ₃)		<u>50</u>	
12. Total Iron (Fe)		<u>0.4</u>	
13. Manganese			
14. Barium (Qualitative)			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	←	HCO ₃	25
()	Mg	→	SO ₄	8
181	Na	→	Cl	149

Saturation ValuesCaCO₃CaSO₄ · 2H₂OMgCO₃**Distilled Water 20°C**

13 Mg/l

2,090 Mg/l

103 Mg/l

Compound	Equly. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>24</u>			<u>2,016</u>
Na ₂ SO ₄	71.03	<u>8</u>			<u>568</u>
NaCl	58.46	<u>149</u>			<u>8,711</u>

REMARKS _____

EXHIBIT "F-2"

AQUAMIX SCALING PREDICTIONS

COMPANY: INLAND
 LOCATION:
 SYSTEM:

02-05-97

WATER DESCRIPTION: BF 7-21

	INPUT ANALYSIS	VALUES USED IN CALCULATIONS
P-ALK AS PPM CaCO ₃	120	120
M-ALK AS PPM CaCO ₃	1500	1500
SULFATE AS PPM SO ₄	360	360
CHLORIDE AS PPM Cl	5300	5300
HARDNESS AS PPM CaCO ₃	50	50
CALCIUM AS PPM CaCO ₃	16	16
MAGNESIUM AS PPM CaCO ₃	2	2
SODIUM AS PPM Na	4163	4163
BARIUM AS PPM Ba	0	
STRONTIUM AS PPM Sr	0	0
CONDUCTIVITY	0	
TOTAL DISSOLVED SOLIDS	11376	10730
TEMP (DEG-F)	100	
SYSTEM pH	8.8	8.8

RESULTS:

IONIC STRENGTH-MOLAL	.177
SPECIFIC GRAVITY (EST. VALUE)	1.01
TOTAL DISSOLVED SOLIDS-PPM (EST. VALUE)	10730

SCALING PREDICTIONS OVER A RANGE OF TEMPERATURES:

DEG-F	STIFF DAVIS CaCO ₃ INDEX	lbs/1000 BBL EXCESS CaCO ₃	mg/l BaSO ₄ IN EXCESS OF SATURATION	mg/l SrO ₄ IN EXCESS OF SATURATION	mg/l Gypsum IN EXCESS OF SATURATION
80	.50	3	0	0	0
100	.73	4	0	0	0
120	1	5	0	0	0
140	1.31	5	0	0	0
160	1.55	5	0	0	0
180	1.90	5	0	0	0
200	2.28	5	0	0	0

EXHIBIT "F-3"

AQUAMIX SCALING PREDICTIONS

02-05-97

COMPANY: INLAND
 LOCATION:
 SYSTEM:

WATER DESCRIPTION:	BOUNDARY INJECTIO	BF 7-21
P-ALK AS PPM CaCO ₃	0	120
M-ALK AS PPM CaCO ₃	400	1500
SULFATE AS PPM SO ₄	40	360
CHLORIDE AS PPM Cl	530	5300
HARDNESS AS PPM CaCO ₃	180	50
CALCIUM AS PPM CaCO ₃	64	16
MAGNESIUM AS PPM CaCO ₃	5	2
SODIUM AS PPM Na	19	4163
BARIUM AS PPM Ba	0	0
STRONTIUM AS PPM Sr	0	0
CONDUCTIVITY	0	0
TOTAL DISSOLVED SOLIDS	1443	11376
TEMP (DEG-F)	100	100
SYSTEM pH	7.6	8.8

WATER COMPATIBILITY CALCULATIONS
 BOUNDARY INJECTIO AND BF 7-21
 CONDITIONS: TEMP.=100AND pH=8.2
 WATER ONE IS BOUNDARY INJECTIO

% OF WATER # 1	STIFF DAVIS CaCO ₃ INDEX	lbs/1000 BBL EXCESS CaCO ₃	mg/l BaSO ₄ IN EXCESS OF SATURATION	mg/l SrO ₄ IN EXCESS OF SATURATION	mg/l Gypsum IN EXCESS OF SATURATION
100	.68	17	0	0	0
90	.70	16	0	0	0
80	.70	14	0	0	0
70	.67	13	0	0	0
60	.64	11	0	0	0
50	.59	10	0	0	0
40	.53	8	0	0	0
30	.46	6	0	0	0
20	.37	5	0	0	0
10	.26	3	0	0	0
0	.13	1	0	0	0

AQUAMIX SCALING PREDICTIONS

COMPANY: INLAND
 LOCATION:
 SYSTEM:

02-05-97

WATER DESCRIPTION:	MONUMENT BUTTE IN	BF 7-21
P-ALK AS PPM CaCO ₃	0	120
M-ALK AS PPM CaCO ₃	450	1500
SULFATE AS PPM SO ₄	50	360
CHLORIDE AS PPM Cl	350	5300
HARDNESS AS PPM CaCO ₃	140	50
CALCIUM AS PPM CaCO ₃	40	16
MAGNESIUM AS PPM CaCO ₃	10	2
SODIUM AS PPM Na	345	4163
BARIUM AS PPM Ba	0	0
STRONTIUM AS PPM Sr	0	0
CONDUCTIVITY	0	0
TOTAL DISSOLVED SOLIDS	1227	11376
TEMP (DEG-F)	100	100
SYSTEM pH	7.2	8.8

WATER COMPATIBILITY CALCULATIONS
 MONUMENT BUTTE IN AND BF 7-21
 CONDITIONS: TEMP.=100 AND pH=8
 WATER ONE IS MONUMENT BUTTE IN

% OF WATER # 1	STIFF DAVIS CaCO ₃ INDEX	lbs/1000 BBL EXCESS CaCO ₃	mg/l BaSO ₄ IN EXCESS OF SATURATION	mg/l SrO ₄ IN EXCESS OF SATURATION	mg/l Gypsum IN EXCESS OF SATURATION
100	.31	6	0	0	0
90	.33	6	0	0	0
80	.32	6	0	0	0
70	.30	5	0	0	0
60	.28	4	0	0	0
50	.24	4	0	0	0
40	.19	3	0	0	0
30	.14	2	0	0	0
20	.08	1	0	0	0
10	.01	0	0	0	0
0	-.07	0	0	0	0

FRACTURING SERVICE TREATING REPORT

BILLED ON
TICKET NO. 842624

FORM # 2012 R-3

WELL DATA		County		State							
Field	So. Myton	Sec.	21	Twp.	8-S0.	Rng.	17-E	County	Duchesne	State	Utah
Formation Name	Green River	Type									
Formation Thickness	From	To									
Initial Prod: Oil	Bpd.	Water	Bpd.	Gas	Mcf/d.						
Present Prod: Oil	Bpd.	Water	Bpd.	Gas	Mcf/d.						
Isolation Tool #	Mandrel Size	Extensions	In.								
Packer Type	Set At										
Bottom Hole Temp.	RBP@										
Head Or Flange	6" 5000 3 Way	Pbtd									

MATERIALS		JOB DATA	
Treat. Fluid	5% KCL	Density	Lb./Gal. @ API
Displ. Fluid		Density	Lb./Gal. @ API
Prop. Type	Ottawa	Size	20/40 Lb. 55,000
Prop. Type		Size	Lb.
Radioactive Tracer	Irr-192	Carrier	Units-MCI 14
Surfactant Type	LoSurf-259	Gal.	30 @ 1 /1000 Gal.
Surfactant Type		Gal.	@ /1000 Gal.
Fluid Loss Type	WAC-11	Gal.-Lb.	320 @ 40 PAD /1000 Gal.
Gelling Agent	LGC	Gal.-Lb.	1400 @ 75 /1000 Gal.
Gelling Agent		Gal.-Lb.	@ /1000 Gal.
Breaker Type	GBW-3	Gal.-Lb.	11 @ .5 /1000 Gal.
Breaker Type	SP	Gal.-Lb.	11 @ .5 /1000 Gal.
Crosslinker	CL-18	Gal.-Lb.	30 @ 1.5 /1000 Gal.
Stabilizer	CL-11	Gal.-Lb.	5 @ /1000 Gal.
Buffer Type	BA-20	Gal.-Lb.	50 @ 1.8 /1000 Gal.
Buffer Type		Gal.-Lb.	@ /1000 Gal.
Bactericide	BE-3	Gal.-Lb.	6 @ .1 /1000 Gal.
Non-Foamer		Gal.-Lb.	@ /1000 Gal.
Clay Control	ClaSta B	Gal.-Lb.	22 @ 1 /1000 Gal.
Diverter		Gal.-Lb.	@ /1000 Gal.
Friction Reducer		Gal.-Lb.	@ /1000 Gal.
Perfpac Balls		Qty.	Size S.G.
Other	7400# KCL		
	10 Gal NF-1		

ACID DATA	
Acid Type	% Gal.-Bbl.
Acid Type	% Gal.-Bbl.
Surfactant Type	Gal. @ /1000 Gal.
Surfactant Type	Gal. @ /1000 Gal.
NE Agent Type	Gal. @ /1000 Gal.
Clay Control Type	Gal.-Lb. @ /1000 Gal.
Corrosion Inhibitor	Gal.-Lb. @ /1000 Gal.
Corrosion Inhibitor	Gal.-Lb. @ /1000 Gal.
Cracking Inhibitor	Gal.-Lb. @ /1000 Gal.
Iron Sequester	Gal.-Lb. @ /1000 Gal.
Friction Reducer	Gal.-Lb. @ /1000 Gal.

PRESSURES IN PSI		SUMMARY	
Circulating	Displacement		
Breakdown	Maximum		
Average	2000	Fracture Gradient	
ISIP	1650	5 Min.	1160
		10 Min.	1070
		15 Min.	1040
Ordered	4000	Available	4000
		Used	1226
AVERAGE RATE IN BPM			
Treating	25.0	Displ.	Overall

Customer Representative X O. R. Dunmore

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	17	5.5	Surf	TD	4000
LINER						
TUBING						
OPEN HOLE				5350	5383	16 Holes
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA		PERSONNEL AND SERVICE UNITS	
DATE	8/8	DATE	8/8
TIME	02:00	TIME	07:08
DATE	8/8	DATE	8/8
TIME	07:31	TIME	07:31

PERSONNEL AND SERVICE UNITS		
NAME	UNIT NO. & TYPE	LOCATION
Patton	Operator	Vernal
Garvin	3314-7593	"
Sanders	50461-6463	"
Molina	3702-6631	"
Wolf	3053	"
Burbridge	3054	"
Harrison	4375	"
Parrack	7676	"
Rivera	3117	"
Kerlin	7263	"
Bodily	Mech	"
Dansie- Curtice	Supv	"

DEPARTMENT		DESCRIPTION OF JOB	
Stimulation		Versagel 1500 HT	
JOB DONE THRU: TUBING <input type="checkbox"/>		CASING <input checked="" type="checkbox"/> ANNULUS <input type="checkbox"/> TSG./ANN. <input type="checkbox"/>	

VOLUMES		REMARKS	
Preflush: Bbl.-Gal.	Type		
Load & Bkdn: Bbl.-Gal.	Pad: Scf-Bbl.-Gal.	8000	
Treatment: Bbl.-Gal.	Displ: Bbl.-Gal.		
Gas Assist	Tons-Scf	@ Scf./Bbl.	
Foam Quality	% Total Volume Foam	Bbl.-Gal.	
Total Volume: Bbl.-Gal.	21,500	(Fluid) Foam	
Screened out 2600 gal into flush			

Robert Patton

Boundary Federal #13-19

Spud Date: 6/5/23/97
Put on Production: --/--/--
GL: 5379' KB: 5392'

Initial Production: BOPD,
MCFPD, BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (287.64')
DEPTH LANDED: 285.69'(GL)
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

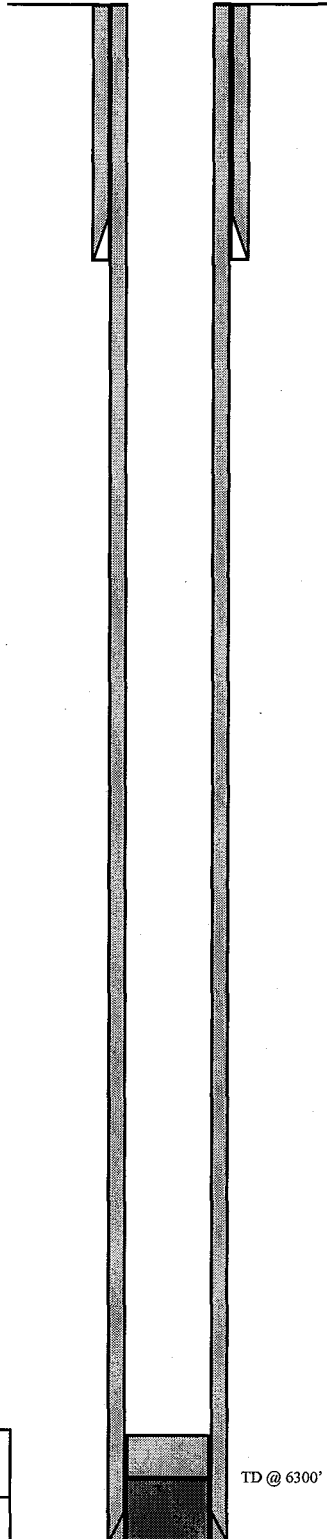
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 144 jts. (6146.77')
DEPTH LANDED: 6140.77'
HOLE SIZE: 7-7/8"
CEMENT DATA: 320 sk Hybond mixed & 340 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SUCKER RODS

FRAC JOB

PERFORATION RECORD



Inland Resources Inc.

Boundary Federal #13-19

742 FSL 823 FWL

SWSW Section 19-T8S-R17E

Duchesne Co, Utah

API #43-013-31625; Lease #U-50376

Tar Sands Federal #3-30

Spud Date: 12/13/96
Put on Production: 1/21/97
GL: 5349' KB: 5362'

Initial Production: 109 BOPD,
172 MCFPD, 4 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (294.37')
DEPTH LANDED: 293' GL
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 6 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 148 jts. (6262.80')
DEPTH LANDED: 6261'
HOLE SIZE: 7-7/8"
CEMENT DATA: 460 sk Hibond mixed & 470 sxs thixotropic
CEMENT TOP AT: 691' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
NO. OF JOINTS: 202 jts
TUBING ANCHOR: 5692'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ? (EOT @ 5816')
SN LANDED AT: 5754'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 4-1" scraped, 126-3/4" plain rods, 100-3/4" scraped
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 2-1/2" x 1-1/2" x 12 x 16 RHAC
STROKE LENGTH: 100"
PUMP SPEED, SPM: 7 SPM
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

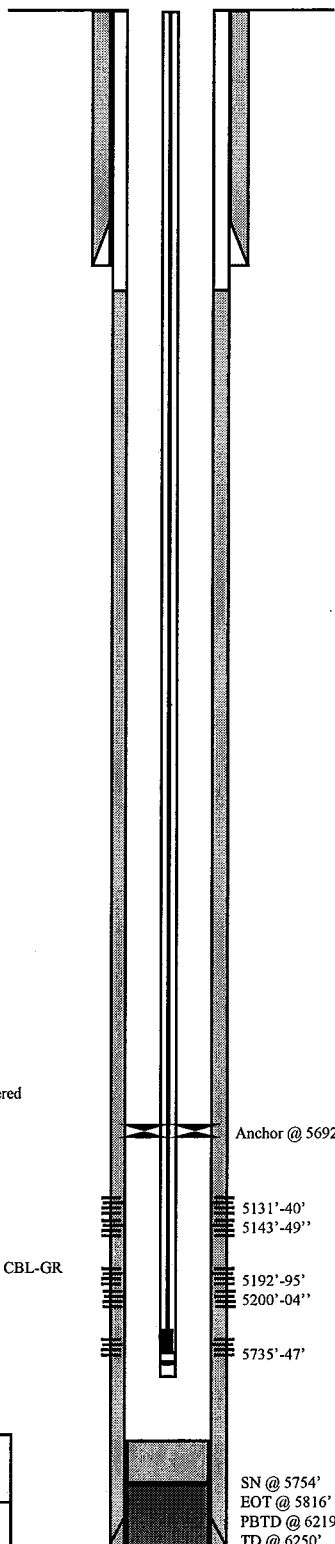
FRAC JOB

1/15/97 5735'-5747' **Frac A-3 sand as follows:**
96,000# of 20/40 sand in 553 bbls of Boragel. Breakdown @ 3000 psi. Treated @ avg rate of 25.5 bpm w/avg press of 2450 psi. ISIP-1'927 psi, 5-min 1812 psi. Flowback on 12/64" ck for 4 hours and died.

1/17/97 5131'-5204' **Frac D-1 and D-2 sands as follows:**
75,800# of 20/40 sand in 468 bbls of Boragel. Breakdown @ 2892 psi. Treated @ avg rate of 23 bpm w/avg press of 1600 psi. ISIP-1903 psi, 5-min 1869 psi. Flowback on 12/64" ck for 4 hours and died.

PERFORATION RECORD

1/14/97	5735'-5747'	4 JSPF	48 holes
1/17/97	5131'-5140'	4 JSPF	36 holes
1/17/97	5143'-5149'	4 JSPF	24 holes
1/17/97	5192'-5195'	4 JSPF	12 holes
1/17/97	5200'-5204'	4 JSPF	16 holes



Inland Resources Inc.

Tar Sands Federal #3-30

584 FNL 1898 FWL

NENW Section 30-T8S-R17E

Duchesne Co, Utah

API #43-013-31755; Lease #U-74869

Tar Sands Federal #4-30

Spud Date: 5/18/96
Put on Production: 6/26/96
GL: 5378' KB: 5391'

Initial Production: 224 BOPD,
140 MCFPD, 8 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts (287.64')
DEPTH LANDED: 285.69' GL
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 148 jts (6255.57')
DEPTH LANDED: 6251.57'
HOLE SIZE: 7-7/8"
CEMENT DATA: 290 sk Hyfill mixed & 360 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
NO. OF JOINTS: 147 jts
TUBING ANCHOR: 4600'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ? (EOT @ 5291')
SN LANDED AT: 5134'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 4-3/4" scraped, 101-3/4" slick rods, 96-3/4" scraped
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 2-1/2" x 1-1/2" x 12 x 15 RHAC
STROKE LENGTH: 52"
PUMP SPEED, SPM: 8 SPM
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

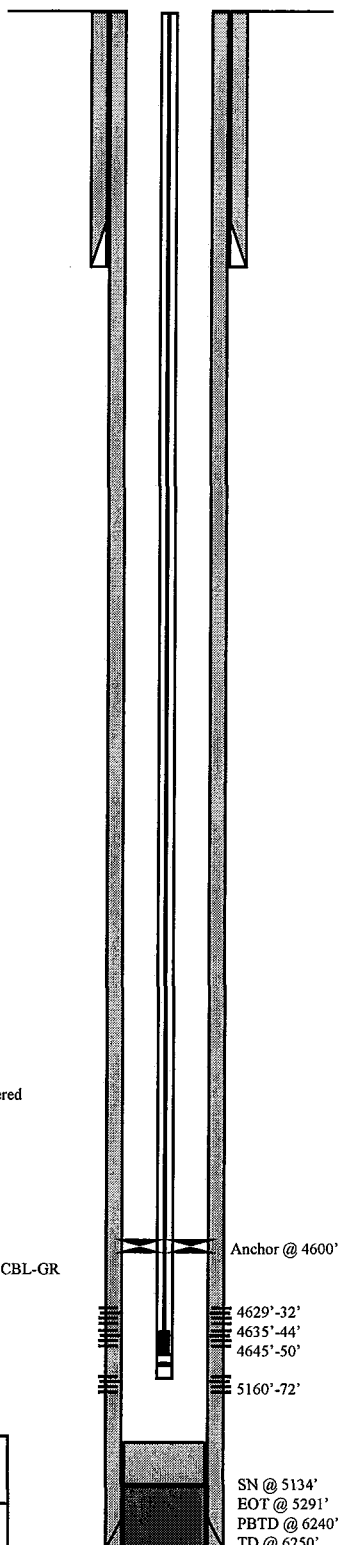
FRAC JOB

6/19/96 5160'-5172' **Frac D-1 sand as follows:**
94,400# 20/40 sand in 470 bbls of
Boragel. Breakdown @ 1613 psi, treated
@ avg rate 18.3 bpm w/avg press of 1670
psi. ISIP 1947 psi, 5-min 1877 psi. Start
flowback on 16/64" ck after 5 min.
Flowed for 3 hrs and died.

6/21/96 4629'-4650' **Frac GB-4 sand as follows:**
95,400# of 20/40 sand in 491 bbls of
Boragel. Breakdown @ 1777 psi. Treated
@ avg rate 18.2 bpm w/avg press of 1470
psi. ISIP-2166 psi. 5-min 1637 psi.
Flowback after 5 min on 16/64" ck.
Flowed for 5-1/2 hrs & died.

PERFORATION RECORD

6/18/96	5160'-5172'	4 JSPF	48 holes
6/20/96	4629'-4632'	4 JSPF	12 holes
6/20/96	4635'-4644'	4 JSPF	36 holes
6/20/96	4645'-4650'	4 JSPF	20 holes



Inland Resources Inc.

Tar Sands Federal #4-30

559 FNL 643 FWL

NWNW Section 30-T8S-R17E

Duchesne Co, Utah

API #43-013-31621; Lease #U-74869

Tar Sands Federal #5-30

Spud Date: 8/5/96
Put on Production: 9/19/96
GL: 5420' KB: 5433'

Initial Production: 69 BOPD,
102 MCFPD, 3 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (294.78')
DEPTH LANDED: 292.18'(GL)
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 7 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 146 jts. (6269.79')
DEPTH LANDED: 6261.79'
HOLE SIZE: 7-7/8"
CEMENT DATA: 370 sk Hyfill mixed & 360 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8"/6.5#/LS tbg.
NO. OF JOINTS: 199 jts.
TUBING ANCHOR: 5099'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: EOT @ 5540'
SN LANDED AT: 5415'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.
SUCKER RODS: 4- 1" scraped, 112-3/4" plain rods, 96-3/4" scraped
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 2-1/2 x 1-1/2 x 15" RHAC pump
STROKE LENGTH: 86"
PUMP SPEED, SPM: 7 SPM
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

9/11/96 5429'-5439' **Frac B-1 sand as follows:**
71,700# of 20/40 sand in 442 bbls of Boragel. Breakdown @ 2111 psi. Treated @ avg rate of 20.2 bpm w/avg press of 1500 psi. ISIP-2297 psi, 5-min 2000psi. Flowback on 12/64" ck for 3 hrs and died.

9/13/96 5256'-5262' **Frac D-3 sand as follows:**
71,700# of 20/40 sand in 442 bbls of Boragel. Breakdown @ 2111 psi. Treated @ avg rate of 20.2 bpm w/avg press of 1500 psi. ISIP-2297 psi, 5-min 2000psi. Flowback on 12/64" ck. for 2 hrs and died.

9/16/96 5131'-5153' **Frac D-1 sand as follows:**
63,400# of 20/40 sand in 377 bbls o Boragel. Breakdown @ 780 psi. Treated @ avg rate of 18.3 bpm w/ avg press of 1650 psi. ISIP-2399 psi, 5-min 2390 psi. Flowback on 12/64" ck for 3 hrs and died.

PERFORATION RECORD

9/10/96	5429'-5439'	4 JSPF	40 holes
9/12/96	5256'-5262'	4 JSPF	24 holes
9/14/96	5131'-5133'	4 JSPF	8 holes
9/14/96	5141'-5148'	4 JSPF	28 holes
9/14/96	5150'-5153'	4 JSPF	12 holes



Inland Resources Inc.

Tar Sands Federal #5-30

631.4 FWL 1884.4 FNL

SWNW Section 30-T8S-R17E

Duchesne Co, Utah

API #43-013-31620; Lease #U-74869

Monument Butte Federal #15-24

Spud Date: 5/10/96
Put on Production: 6/15/96
GL: 5416' KB: 5429'

Initial Production: 9 BOPD,
22 MCFPD, 20 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts.(293.68')
DEPTH LANDED: 290'
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 148 jts.(6302.63')
DEPTH LANDED: 6300'
HOLE SIZE: 7-7/8"
CEMENT DATA: 330 sk Hyfill mixed & 355 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
NO. OF JOINTS: 200 jts
TUBING ANCHOR: 5175'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ? (EOT @ 6092')
SN LANDED AT: 6026'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.
SUCKER RODS: 4-3/4" scraped, 138-3/4" plain rods, 93-3/4" scraped
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 1-1/2"
STROKE LENGTH: 86"
PUMP SPEED, SPM: 7 SPM
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

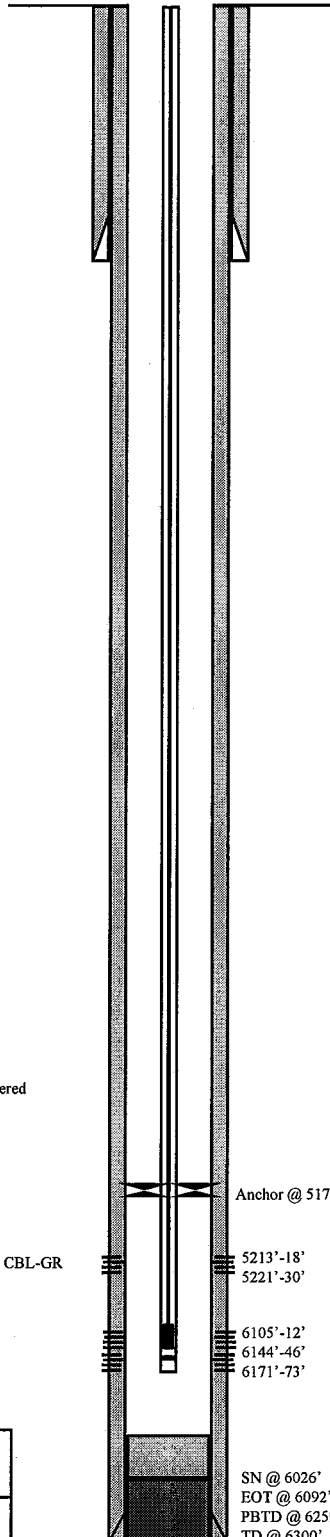
6/6/96 6105'-6173' Frac CP-2 and CP-1 sands as follows:
77,700# 20/40 sd in 437 bbls of Boragel.
Breakdown @ 1958 psi & treated @ avg
1480 psi. ISIP-1802 psi, 5-min 1638 psi.
Flwoback on 16/64" ck @ 1.4 bpm 1.5
hrs until dead.

6/8/96 5213'-5230' Frac D-1 sand as follows:
57,500# 20/40 sd in 433 bbls Boragel.
Breakdown @ 2113 psi & treated @ avg
rate 16.5 bpm w/ avg press 1250 psi.
ISIP-1846 psi, 5-min 1573 psi. Flowback
on 16/64" ck. 1-1/2 hrs until dead.

10/31/96 Hot Oil Treatment
Pump 60 bbls hot oil down casing.

PERFORATION RECORD

6/5/96	6171'-6173'	4 JSPF	4 holes
6/5/96	6144'-6146'	4 JSPF	8 holes
6/5/96	6105'-6112'	4 JSPF	28 holes
6/7/96	5221'-2130'	4 JSPF	20 holes
6/7/96	5213'-5218'	4 JSPF	36 holes



Inland Resources Inc.

Monument Butte Federal #15-24

660 FSL 1980 FEL

SWSE Section 24-T8S-R16E

Duchesne Co, Utah

API #43-013-31628; Lease #U-67170

SN @ 6026'
EOT @ 6092'
PBTD @ 6259'
TD @ 6300'

Monument Butte Federal #15-24

Spud Date: 5/10/96
Put on Injection: 2/10/97
GL: 5416' KB: 5429'

Initial Production: ? BOPD, ?
MCFPD, ? BWPB

Injection Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (293.68')
DEPTH LANDED: 290'
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 148 jts (6302.63')
DEPTH LANDED: 6300'
HOLE SIZE: 7-7/8"
CEMENT DATA: 330 sk Hyfill mixed & 355 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
NO. OF JOINTS: 165 jts
PACKER: 5172.68'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ? (EOT @ 5127.68')
SN LANDED AT: 5168.41'

SUCKER RODS

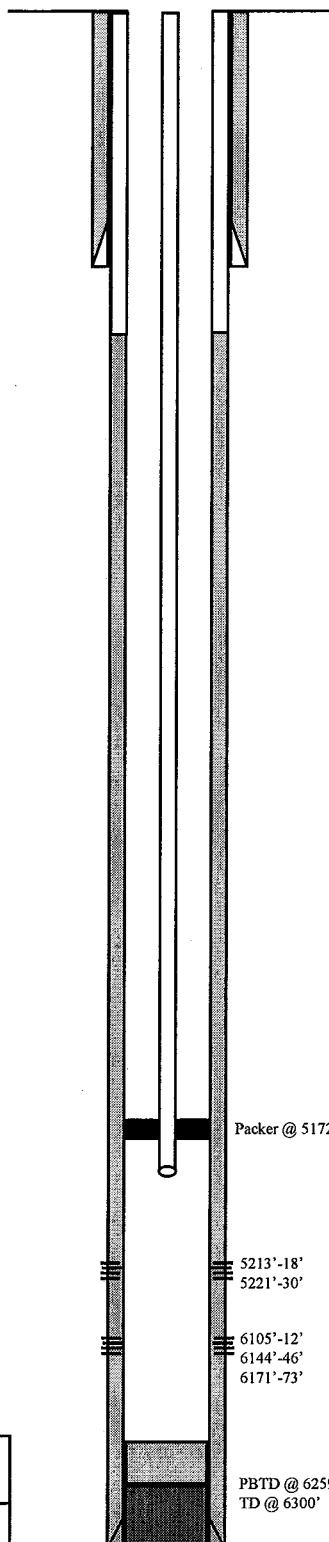
FRAC JOB

6/6/96 6105'-6173' **Frac CP-2 and CP-1 sands as follows:**
77,700# 20/40 sd in 437 bbls of Boragel.
Breakdown @ 1958 psi & treated @ avg
1480 psi. ISIP-1802 psi, 5-min 1638 psi.
Flowback on 16/64" ck @ 1.4 bpm 1.5
hrs until dead.

6/8/96 5213'-5230' **Frac D-1 sand as follows:**
57,500# 20/40 sd in 433 bbls Boragel.
Breakdown @ 2113 psi & treated @ avg
rate 16.5 bpm w/ avg press 1250 psi.
ISIP-1846 psi, 5-min 1573 psi. Flowback
on 16/64" ck. 1-1/2 hrs until dead.

PERFORATION RECORD

6/5/96	6171'-6173'	4 JSPF	4 holes
6/5/96	6144'-6146'	4 JSPF	8 holes
6/5/96	6105'-6112'	4 JSPF	28 holes
6/7/96	5221'-2130'	4 JSPF	20 holes
6/7/96	5213'-5218'	4 JSPF	36 holes



Inland Resources Inc.

Monument Butte Federal #15-24

660 FSL 1980 FEL

SWSE Section 24-T8S-R16E

Duchesne Co, Utah

API #43-013-31628; Lease #U-67170

Monument Butte Federal #15-24

Spud Date: 5/10/96
Plugged: -/-
GL: 5416' KB: 5429'

Initial Production: ? BOPD, ?
MCFPD, ? BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (293.68')
DEPTH LANDED: 290'
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt.

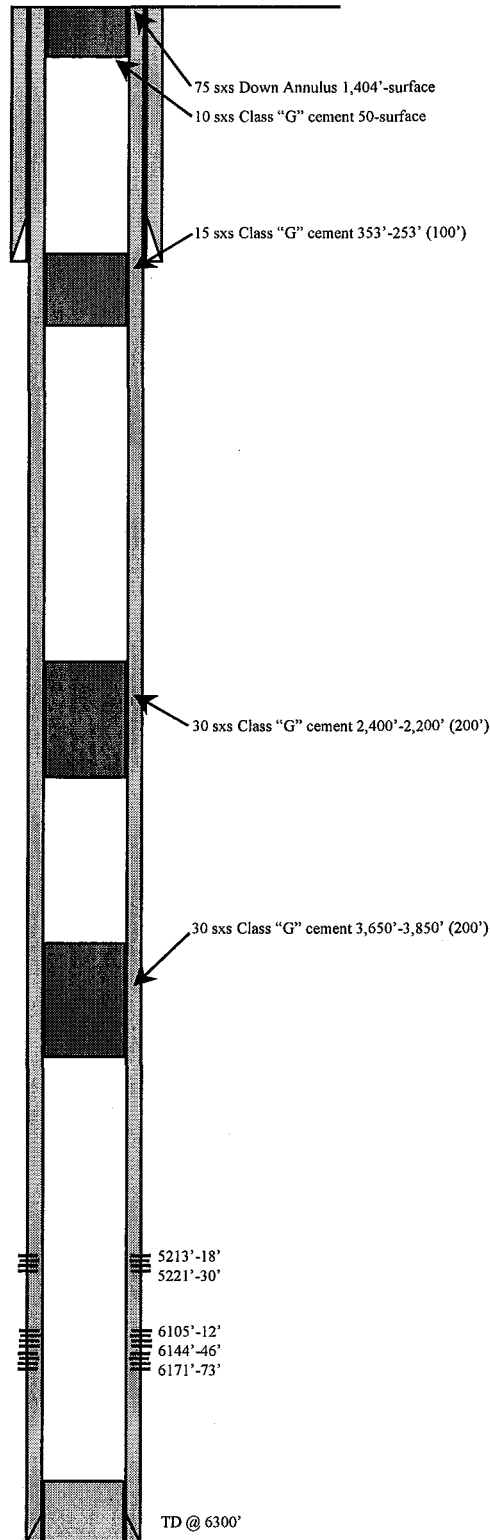
PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 148 jts. (6302.63')
DEPTH LANDED: 6300'
HOLE SIZE: 7-7/8"
CEMENT DATA: 330 sk Hyfill mixed & 355 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SUCKER RODS

Plugging Diagram



Inland Resources Inc.

Monument Butte Federal #15-24

660 FSL 1980 FEL

SWSE Section 24-T8S-R16E

Duchesne Co, Utah

API #43-013-31628; Lease #U-67170

Monument Butte Federal #16-24

Spud Date: 5/4/96
Put on Production: 6/14/96
GL: 5399' KB: 5412'

Initial Production: 76 BOPD,
65 MCFPD, 55 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts.(293.31')
DEPTH LANDED: 306.31'
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 7 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 147 jts.(6341.36')
DEPTH LANDED: 6296.23'
HOLE SIZE: 7-7/8"
CEMENT DATA: 315 sk Hyfill mixed & 350 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
NO. OF JOINTS: 200 jts
TUBING ANCHOR: 5871'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ? (EOT @ 6035')
SN LANDED AT: 5965'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod.
SUCKER RODS: 4-3/4" guided, 122-3/4" slick rods, 97-3/4" guided
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 15-1/2' RHAC pump
STROKE LENGTH: 100"
PUMP SPEED, SPM: 6 SPM
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

6/4/96 6105'-6170' **Frac CP-2 and CP-1 sands as follows:**
99,600# 20/40 sd in 548 bbls Boragel.
Breakdown @ 2969 psi & treated @ avg rate 24.4 bpm @ avg press 1700 psi. ISIP-2283 psi, 5-min 2047 psi. Flowback on 16/64" ck @ 1.8 bpm.

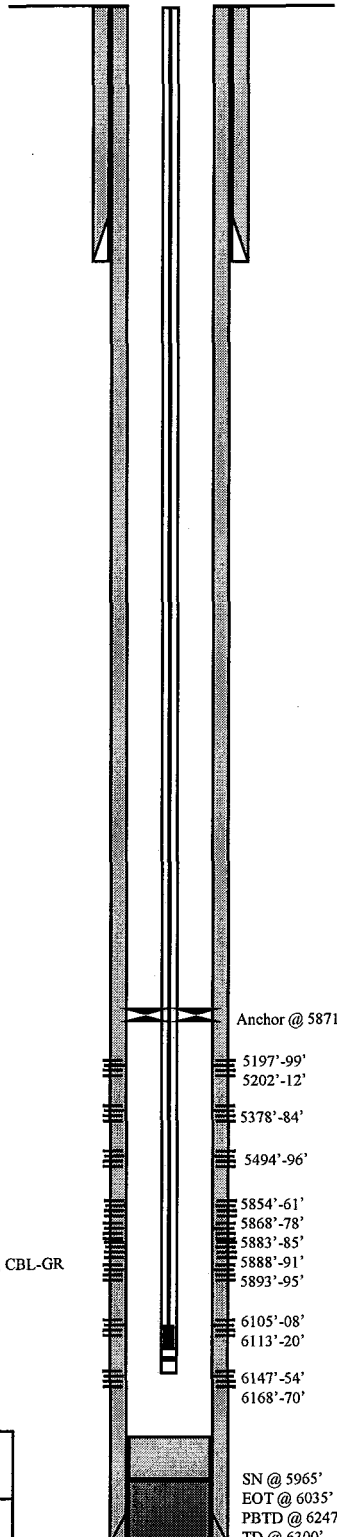
6/6/96 5854'-5895' **Frac LODC sand as follows:**
77,700# 20/40 sd in 467 bbls Boragel.
Breakdown @ 2582 psi & treated @ avg rate 14.9 bpm & avg press 1800 psi. ISIP-2264 psi, 5-min 2110 psi. Flowback on 16/64" ck @ 1.7 bpm for 1 hr until dead.

6/8/96 5378'-5496' **Frac C and B-1 sands as follows:**
91,500# 20/40 sd in 514 bbls of Boragel.
Breakdown @ 2172 psi treated w/avg rate 24 bpm w/avg press 1600 psi. ISIP-2264 psi, 5-min 1425 psi. Flowback on 16/64" ck 3 hrs until dead.

6/11/96 5197'-5212' **Frac D-1 sand as follows:**
92,200# of 20/40 sd in 501 bbls Boragel.
Breakdown @ 1217 psi & treated @ avg rate of 18.5 bpm w/avg press of 1600 psi. ISIP-1979 psi, 5-min 1425 psi. Flowback on 16/64" ck. Flowed for 3 hrs & died.

PERFORATION RECORD

Date	Interval	Tool	Holes
6/3/96	6105'-6108'	4 JSPF	12 holes
6/3/96	6113'-6120'	4 JSPF	28 holes
6/3/96	6147'-6154'	4 JSPF	28 holes
6/3/96	6168'-6170'	4 JSPF	8 holes
6/5/96	5854'-5861'	4 JSPF	28 holes
6/5/96	5868'-5878'	4 JSPF	40 holes
6/5/96	5883'-5885'	4 JSPF	8 holes
6/5/96	5888'-5891'	4 JSPF	12 holes
6/5/96	5893'-5895'	4 JSPF	8 holes
6/7/96	5378'-5384'	4 JSPF	24 holes
6/7/96	5494'-5496'	4 JSPF	8 holes
6/10/96	5197'-5199'	4 JSPF	8 holes
6/10/96	5202'-5212'	4 JSPF	40 holes



Inland Resources Inc.

Monument Butte Federal #16-24

660 FSL 660 FEL

SESE Section 24-T8S-R16E

Duchesne Co, Utah

API #43-013-31629; Lease #U-67170

Monument Butte Federal #1-25

Spud Date: 4/17/96
Put on Production: 5/10/96
GL: 5398' KB: 5411'

Initial Production: 354 BOPD,
458 MCFPD, 8 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 304'
DEPTH LANDED: 303'
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 146 jts.
DEPTH LANDED: 6246.44'
HOLE SIZE: 7-7/8"
CEMENT DATA: 275 sk Hyfill mixed & 355 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#
NO. OF JOINTS: 199 jts
TUBING ANCHOR: 5864'
SEATING NIPPLE: 2-7/8" (1.10')
TOTAL STRING LENGTH: ? (EOT @ 5999')
SN LANDED AT: ?

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
SUCKER RODS: 4-3/4" scraped, 132-3/4" slick rods, 95-3/4" scraped
TOTAL ROD STRING LENGTH: ?
PUMP NUMBER: ?
PUMP SIZE: 2-1/2" x 1-1/2" x 10 x 15 RHAC
STROKE LENGTH: 86"
PUMP SPEED, SPM: 7 SPM
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

FRAC JOB

4/30/96 6091'-6184' Frac CP-4 and CP-2 sand as follows:
83,400# of 20/40 sd in 523 bbls Boragel.
Breakdown @ 1801 psi. ISIP 1760 psi, 5-min 1631 psi. Flowback after 5 min SI on 16/64" ck @ 1.6 bpm.

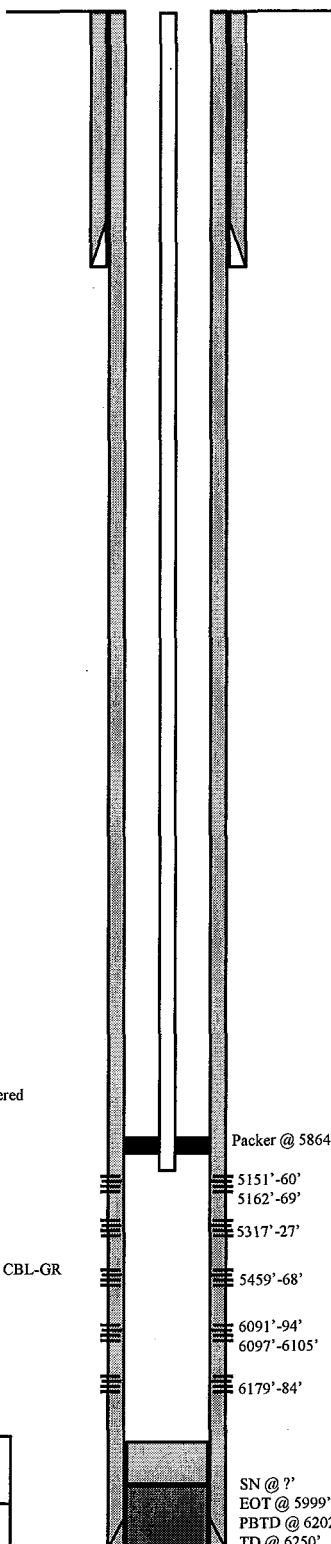
5/2/96 5459'-5468' Frac B-2 sand as follows:
50,000# of 20/40 sd in 353 bbls Boragel.
Breakdown @ 1008 psi. Treated @ avg rate 16.8 bpm, avg press 1450#. ISIP-2256 psi, 5-min 2042 psi. Flowback on 16/64" ck @ 1 bpm.

5/4/96 5317'-5327' Frac C sand as follows:
57,400# of 20/40 sd in 383 bbls of Boragel. Frmtn broke @ 1797#. Avg treating press 1450# @ 162 bpm. ISIP-1820 psi, 5-min 1698 psi. Start flowback on 16/64" ck @ 1.5 bpm.

5/7/96 5151'-5160' Frac D-1 sand as follows:
56,400# of 20/40 sd in 379 bbls of Boragel. Breakdown @ 1794 psi, treat @ avg rate 18.5, avg press 1300 psi. ISIP-1843 psi, 5-min 1775 psi. Start flowback on 16/64" ck @ 1.7 bpm, flowed for 1-1/4 hours & died.

PERFORATION RECORD

Date	Interval	Tool	Holes
4/25/96	6179'-6184'	4 JSPF	? holes
4/25/96	6091'-6094'	4 JSPF	? holes
4/25/96	6097'-6105'	4 JSPF	? holes
5/1/96	5459'-5468'	4 JSPF	36 holes
5/3/96	5317'-5327'	4 JSPF	40 holes
5/6/96	5151'-5160'	4 JSPF	36 holes
5/6/96	5162'-5169'	4 JSPF	28 holes



Inland Resources Inc.

Monument Butte Federal #1-25

660 FNL 660 FEL

NENE Section 25-T8S-R16E

Duchesne Co, Utah

API #43-013-31608; Lease #U-67170

SN @ ?'
EOT @ 5999'
PBTD @ 6202'
TD @ 6250'

Monument Butte Federal #1-25

Spud Date: 4/17/96
Plugged: --/--
GL: 5398' KB: 5411'

Initial Production: 354 BOPD,
458 MCFPD, 8 BWPD

Plugging Diagram

SURFACE CASING

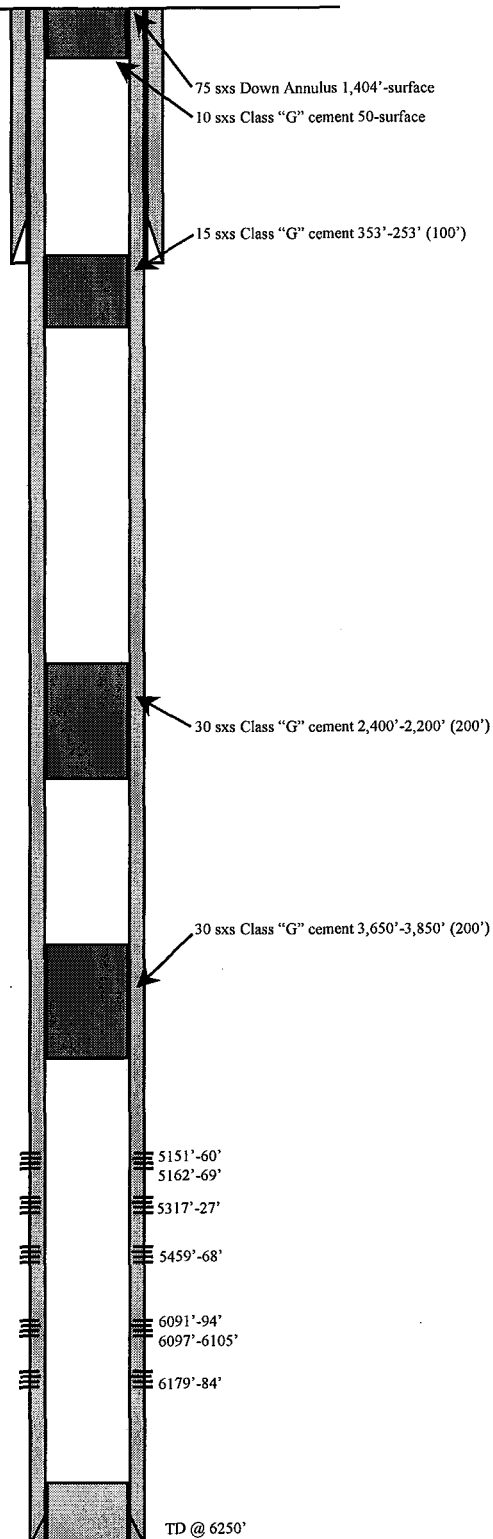
CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 304'
DEPTH LANDED: 303'
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 146 jts.
DEPTH LANDED: 6246.44'
HOLE SIZE: 7-7/8"
CEMENT DATA: 275 sk Hyfill mixed & 355 sxs thixotropic
CEMENT TOP AT: Surface per CBL

TUBING

SUCKER RODS



Inland Resources Inc.

Monument Butte Federal #1-25

660 FNL 660 FEL

NENE Section 25-T8S-R16E

Duchesne Co, Utah

API #43-013-31608; Lease #U-67170

Monument Butte Federal #1-25

Spud Date: 4/17/96
Put on Injection: 5/28/97
GL: 5398' KB: 5411'

Initial Production: ? BOPD, ?
MCFPD, ? BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 304'
DEPTH LANDED: 303'
HOLE SIZE: 12-1/4"
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 146 jts.
DEPTH LANDED: 6246.44'
HOLE SIZE: 7-7/8"
CEMENT DATA: 275 sk Hyfill mixed & 355 sxs thixotropic
CEMENT TOP AT: Surface per CBL

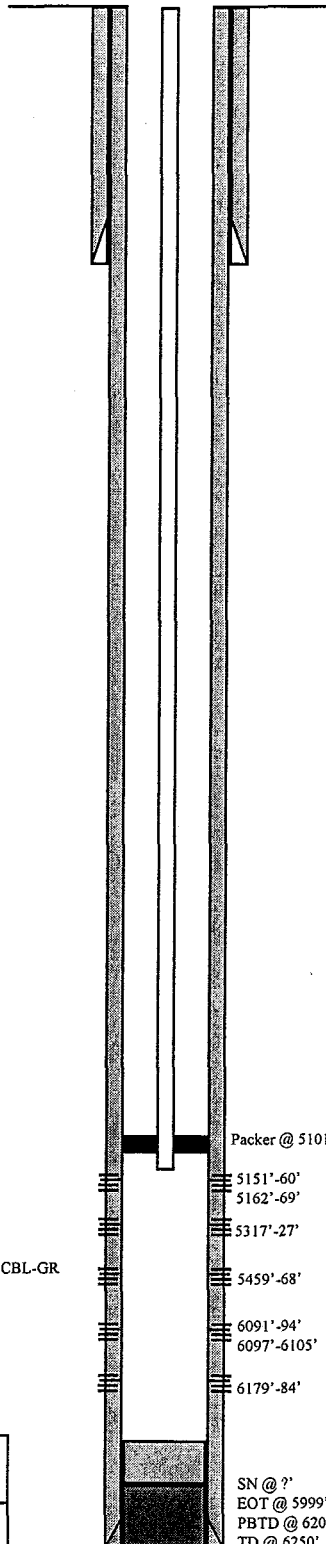
TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / ?#
NO. OF JOINTS: 162 jts
PACKER :?
SEATING NIPPLE: ?
TOTAL STRING LENGTH: ?
SN LANDED AT: ?

SUCKER RODS

POLISHED ROD:
SUCKER RODS:
TOTAL ROD STRING LENGTH:
PUMP NUMBER:
PUMP SIZE:
STROKE LENGTH:
PUMP SPEED, SPM:
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

Injector Wellbore Diagram



FRAC JOB

4/30/96 6091'-6184' Frac CP-4 and CP-2 sand as follows:
83,400# 20/40 sd in 523 bbls Boragel.
Breakdown @ 1801 psi. ISIP 1760 psi, 5-min 1631 psi. Flowback after 5 min SI on 16/64" ck @ 1.6 bpm.

5/2/96 5459'-5468' Frac B-2 sand as follows:
50,000# of 20/40 sd in 353 bbls Boragel.
Breakdown @ 1008 psi. Treated @ avg rate 16.8 bpm, avg press 1450#. ISIP-2256 psi, 5-min 2042 psi. Flowback on 16/64" ck @ 1 bpm.

5/4/96 5317'-5327' Frac C sand as follows:
57,400# of 20/40 sd in 383 bbls of Boragel. Frmtn broke @ 1797#. Avg treating press 1450# @ 162 bpm. ISIP-1820 psi, 5-min 1698 psi. Start flowback on 16/64" ck @ 1.5 bpm.

5/7/96 5151'-5160' Frac D-1 sand as follows:
56,400# of 20/40 sd in 379 bbls of Boragel. Breakdown @ 1794 psi, treat @ avg rate 18.5, avg press 1300 psi. ISIP-1843 psi, 5-min 1775 psi. Start flowback on 16/64" ck @ 1.7 bpm, flowed for 1-1/4 hours & died.

PERFORATION RECORD

Date	Depth Range	Tool	Holes
4/25/96	6179'-6184'	4 JSPF	? holes
4/25/96	6091'-6094'	4 JSPF	? holes
4/25/96	6097'-6105'	4 JSPF	? holes
5/1/96	5459'-5468'	4 JSPF	36 holes
5/3/96	5317'-5327'	4 JSPF	40 holes
5/6/96	5151'-5160'	4 JSPF	36 holes
5/6/96	5162'-5169'	4 JSPF	28 holes



Inland Resources Inc.

Monument Butte Federal #1-25

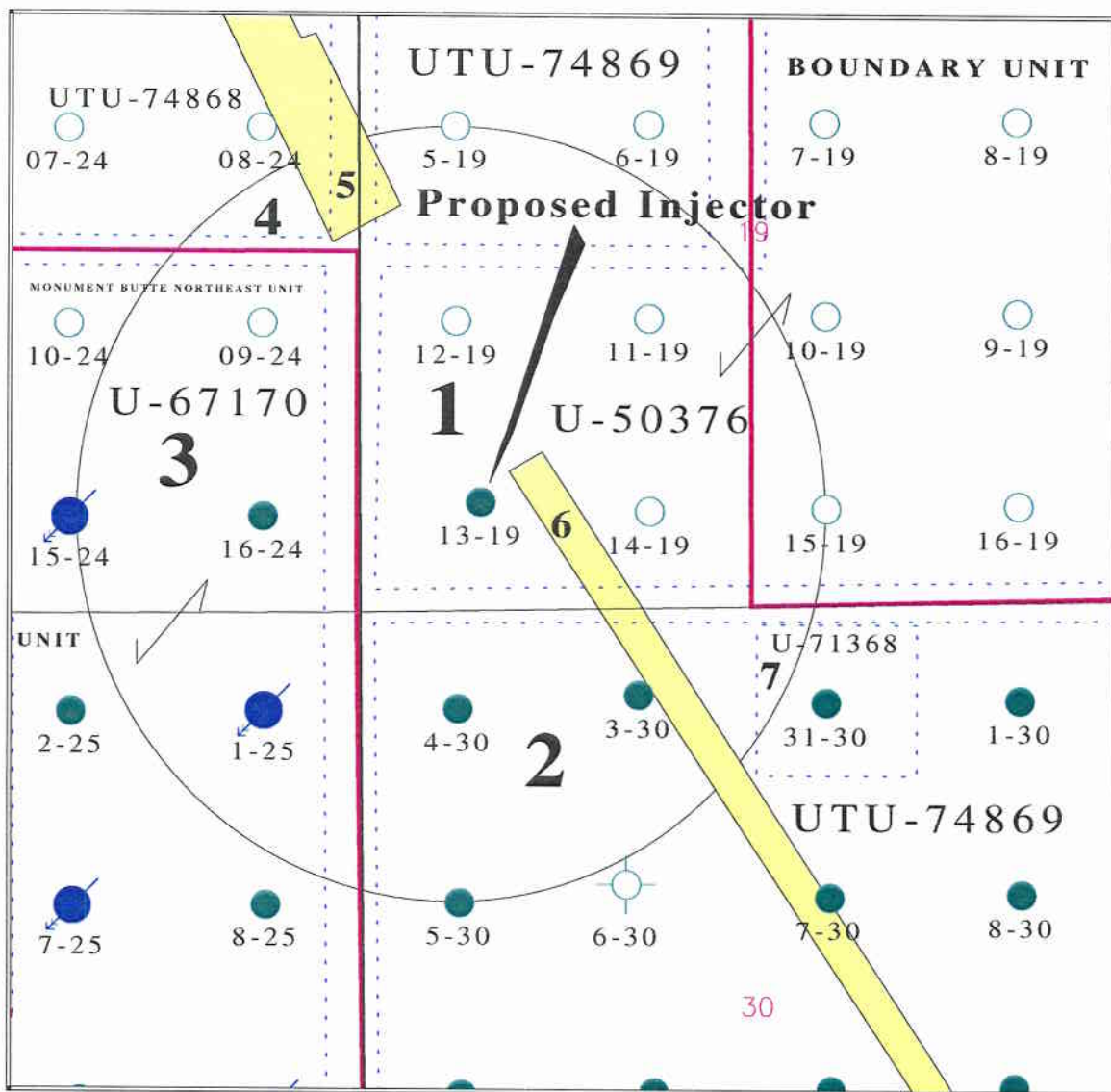
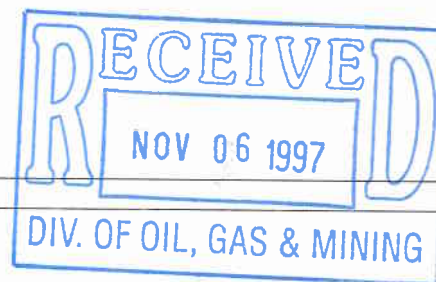
660 FNL 660 FEL

NENE Section 25-T8S-R16E

Duchesne Co, Utah

API #43-013-31608; Lease #U-67170

SN @ ?'
EOT @ 5999'
PBTD @ 6202'
TD @ 6250'



BOUNDARY
DUCHESNE COUNTY, UTAH
MINERAL RIGHTS

(GRAZING RIGHTS ONLY)
LESSEE:
ELMER MOON & SONS

EXHIBIT

Legend

- PRODUCING WELL
- EXISTING INJECTION WELL
- DRY HOLE

BOUNDARY FEDERAL 13-19 6300 TD

EXHIBIT B

Page 1 of 2

Tract	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights Grazing Rights Leased by
1	Township 8 South, Range 17 East Section 17: All Section 18: Lots 1 & 2 Section 19: E/2, SW/4 Section 20: All Section 21: NW/4, S/2	U-50376 HBP	Inland Production Company	(Surface Rights) USA (Grazing Rights) Elmer Moon & Sons
2.	Township 8 South, Range 17 East Section 18: Lots 3, 4 Section 19: Lots 1, 2, E/2NW/4 (Excluding Patent #880415) Section 29: All Section 30: Lots 1-14, E/2NE/4, E/2SW/4, SW/4SE/4 Section 31: Lots 1-5, W/2E/2, SE/4NE/4, E/2W/2, NE/4SE/4	UTU-74869 HBP	Inland Production Company	(Surface Rights) USA (Grazing Rights) Elmer Moon & Sons
3.	Township 8 South, Range 16 East Section 24: S/2 Section 25: NE/4, E/2NW/4, S/2 Section 26: S/2SE/4	U-67170 HBP	Inland Production Company	(Surface Rights) USA (Grazing Rights) Elmer Moon & Sons

EXHIBIT B

2 of 2

Tract	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights Grazing Rights Leased by
4.	Township 8 South, Range 16 East Section 13: All, (Excluding Patent No. 813321) Section 22: NE/4 Section 23: NW/4 Section 24: N/2, (Excluding Patent Nos. 813321 and 884015)	UTU-74868	Inland Production Company	(Surface Rights) USA (Grazing Rights) Elmer Moon & Sons
5.	Township 8 South, Range 16 East Section 24: That part of the SE/4NE/4 and the NE/4SE/4 containing the Doris No. 3 mining claim described as mineral survey No. 6614 Township 8 South, Range 17 East Section 19: That part of Lot 2 containing the Doris No. 3 mining claim Described as mineral survey No. 6614	Ernest Pizzano, et al	Inland Production Company	
6.	Township 8 South, Range 17 East Sections 19, 30 & 31	Raven, Blackbird and Brunette Patented Mining Claims	Kaiser-Francis Oil Company	

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT
STATEMENT OF BASIS**

Applicant: Inland Production company

Unit: Sand Wash

Location: Secs. 19,19, 30 & 31, T.8S., R.17 E.

Ownership Issues: The Sand Wash Unit water flood project will be heard before the Board of Oil, Gas and Mining on October 22, 1997 (Cause No. 229-2). Inland proposes to create a unit and initiate secondary recovery operations to increase ultimate recovery of oil. Selected intervals in the Green River Formation will be perforated for water injection. The surface within the unit area and within a one-half mile around the unit is owned by the Federal Government (BLM) and the State School Trust (SITLA). There are numerous interest owners in the unit and on surrounding leases. Inland is operator of all but two wells in the proposed unit. Wildrose Resources is the operator of the two wells. Inland will be the designated unit operator.

Well Integrity: Existing and proposed injection wells generally have surface casing set at approximately 300 feet and are cemented to surface. Production casing is generally set between 6000 feet and 6300 feet. Cement tops on production casing on existing wells varies and range from 3000 feet below surface to surface. It is the practice of the operator to use sufficient quantities of cement on newly drilled wells to bring cement to surface. A review of bond logs on existing wells shows concurrence with reported cement tops. On newly drilled wells cement tops are sometimes difficult to determine because the operator has been using a highlift light cement as a lead cement. This cement has low compressive strength and does not show up as good bond on a CBL. Cement tops at 3000 feet and above are adequate to insure mechanical integrity considering the injection zones are generally at 4000 feet and below. A 2 7/8 inch or 2 3/8 inch tubing shall be utilized. A retrievable packer will be placed approximately 50 feet above the uppermost perforation. A casing test will be performed at the time of conversion and a casing/tubing pressure test will be conducted prior to commencing injection. Subsequent pressure tests will be conducted at least every five years or any time a packer is pulled or there has been a loss of mechanical integrity.

Ground Water Protection: The base of moderately saline water is at a depth of approximately 1300 feet to 2000 feet in the Sand Wash Unit area. These water zones are found in sands in the Uinta Formation and upper sands of the Green River Formation are generally discontinuous and not subject to direct recharge. Aquifers with high quality water are rarely encountered and are of limited extent. Confining intervals above and below the proposed injection zone consists of tight lacustrine shales and limestones. An analysis was submitted for the water present in the injection zone. The total dissolved solids content was over 11,000 mg/l. The injection zone is not classified as an underground source of drinking water (USDW). The water to be injected comes from the Johnson Water Company and has a TDS of approximately 900 mg/l. Injection of this water into the proposed injection zone will not degrade any aquifers.

Producing wells in the area of review generally have adequate casing and cement to protect and isolate water of differing quality. At the time an application is received for a proposed injection well, a review of all wells in a one-half mile radius will be conducted to determine if corrective action is needed.

Oil/Gas & Other Mineral Resources Protection: All correlative rights and mineral interests issues will be addressed at the time the waterflood unit comes before the board.

Bonding: Wells within the unit are on federal mineral and surface and are bonded with the BLM.

Actions Taken and Further Approvals Needed: A notice of agency action was published in both the Salt Lake Tribune and the Uinta Basin Standard. The notice addressed the request to unitize the area initiate secondary recovery operations and requested approval to convert the 13-19, 13-30 and 5-30 wells to injection. Applications for all of the above wells have been received. BLM approval of the wells will be required under applicable onshore orders. A final permit will be issued on wells after all conditions of approval and stipulations are met as outlined on the approval to convert letter. An individual statement of basis addendum will be prepared for each well subsequently approved for conversion.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): D. Jarvis Date: 10/15/97

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT
STATEMENT OF BASIS**

Applicant: Inland Production Company

Well: Tar Sands Fed. 13-19

Location: 19/8S/17E

API: 43-013-31625

A complete Statement of Basis was prepared for the Sand Wash Unit project. All of the below issues were addressed in detail. This statement addresses only well specific issues.

Ownership Issues: The proposed well is located on BLM land. All lands in the one-half mile radius of the well are BLM. Inland has submitted an affidavit stating that all owners and interest owners have been notified of there intent to unitize the area and initiate a secondary recovery project.

Well Integrity: The proposed well has been drilled and completed but no testing has been conducted. The well has surface casing set at 285 feet and is cemented to surface. A 5 ½ inch production casing is set at 6300 feet and has a cement top at the surface. A cement bond log verifies adequate bond well above the injection zone. A 2 7/8 inch tubing with a packer will be set approximately 50 feet above the injection zone. A mechanical integrity test will be run on the well prior to injection. There are no wells in the one-half mile area of review. No corrective action will be required.

Ground Water Protection: The base of moderately saline water is at a depth of approximately 1300 feet. Injection shall be limited to the interval between 3880 feet and 6150 feet in the Green River Formation (actual zone is 5150-5600). Information submitted by Inland indicates that an estimated fracture gradient for the 13-19 well is . 72 psig/ft. The resulting fracture pressure at the proposed uppermost perforation at 5150 feet is 1475 psig. Inland did not request a maximum pressure for this well, but stated that a step-rate test will be conducted to determine the maximum pressure. Until that time a maximum surface pressure of 1475 psi will be allowed. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

Oil/Gas& Other Mineral Resources Protection: Correlative rights and other interests will be addressed at the hearing on October 22, 1997. Previous reviews in the area indicate that all other interests have been protected.

Tar Sands 13-19

Page 2

Bonding: Bonded with the BLM

Actions Taken and Further Approvals Needed: A notice of agency action was published in both the Salt Lake Tribune and the Uinta Basin Standard. Approval for this well was requested as part of the approval for the project. Testimony will be given at the hearing regarding correlative rights and other legal issues. If there are no objections at the hearing it is recommended that the well be approved as part of the project. Conditions of approval as set forth are: A casing tubing pressure test be run prior to injection, maximum surface pressure limited to 1475 psi., rate will be limited by pressure, a step-rate test will be conducted and conformance with all conditions and requirements of the complete application submitted by Inland.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): D.Jarvis Date: 10/15/97

**Form 3160-5
(June 1990)**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDAY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED	
Budget Bureau No. 1004-0111	
Expires: March 31, 1991	
3. Lease Designation and Serial No.	11-50376
6. If Indian, Allottee or Tribe Name	
7. If Unit or CA, Agreement Designation	
8. Well Name and No.	Boundary Federal # 13-198-17
9. API Well No.	43-013-31625
10. Field and Name of Producing Area	Monument Butte
11. County or Parish, State	Duchesne, Utah

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Inland Production Company (303) 292-0900

3. Address and Telephone No.
410 17th Street, Suite 700, Denver, CO 80202

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SWSW Section 19-T8S-R17E
742' FSL and 823' FWL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Resumption
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Well Name Change</u>
	<input type="checkbox"/> Change of Name
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion or Completion or Resumption Report and Lay-In)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)¹⁰

Inland Production Company requests approval to change the well name from Boundary Federal #13-19 to Boundary Federal #13-19-8-17.

14. I hereby certify that the foregoing is true and correct

Signed Debbie Knight Title Permitting Specialist Date 3-25-98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

'See instruction on Reverse Side

Recieved Time Mar: 4 10:28AM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

BOUNDARY FEDERAL 13-19-8-17

9. API Well No.

43-013-31625

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

☐

Oil
Well

☐

Gas
Well

☐

Other

WIW

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

742 FSL 823 FWL

SW/SW Section 19, T08S R17E

12. **CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

TYPE OF ACTION

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other

First Injection

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

☐

Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The date of first injection for the above referenced well is April 22, 1998.

14. I hereby certify that the foregoing is true and correct

Signed

Debbie E. Knight

Title

Manager, Regulatory Compliance

Date

4/29/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: UTAH DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

P.O. Box 790233 Vernal, UT 84079 (435) 789-1866

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface SW/SW

At top prod. interval reported below 742' FSL & 823' FWL

At total depth

14. PERMIT NO.

DATE ISSUED

43-013-31625

5. LEASE DESIGNATION AND SERIAL NO.
U-50376

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Boundary Federal

9. WELL NO.

#13-19

10. FIELD AND POOL, OR WILDCAT

Monument Butte

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 19, T8S, R17E

12. COUNTY OR

PARISH

Duchesne

13. STATE

UT

15. DATE SPUDDED

5/6/96

16. DATE T.D. REACHED

5/28/97

17. DATE COMPL. (Ready to prod.)

3/25/98

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5379' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6300'

21. PLUG, BACK T.D., MD & TVD

6250'

22. IF MULTIPLE COMPLETIONS, HOW MANY?

23. INTERVALS

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)

Green River

Refer to Item #31

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIFL/SP/GR/CAL

BOND ATTENUATION

COMP NEW COMP LENS GR

27. WAS WELL CORED

No

28.

CASING RECORD (Report all strings set in well)

DIV OF OIL, GAS & MINING

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	285.69' GL	12 1/4	120 sx Prem + w/ 2% CC, 2% gel w/ 1/4# sk flocele	
5 1/2	15.5#	6300.38'	7 7/8	490 sx Hibond V + add followed by 400 sx Thixo w/ 10% Calseal	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

D sd 5202'-04', 5206'-21', 5326'-34'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5202'-04, 5206'-21'	56,300# 20/40 sd in 379
5326'-34'	bbls Delta Frac

33.* Injection

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
4/22/98		On Injection				Injecting	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12 Day Avg	5/98	N/A	→	N/A	N/A	BWIPD 74	N/A
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

N/A

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Cheryl Cameron

TITLE

Regulatory Specialist

DATE 6/4/98

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch	4155'					
Garden Gulch 2	4484'					
Point 3	4772'					
X Marker	5007'					
Y Marker	5041'					
Douglas Creek	5166'					
Bi-Carb	5431'					
B-Lime	5578'					
Castle Peak	6055'					
Basal Carb	NDE					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Injector

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

742 FSL 823 FWL SW/SW Section 19, T08S R17E

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

**SANDWASH UNIT
UTU-76788X**

8. Well Name and No.

BOUNDARY FEDERAL 13-19-8-17

9. API Well No.

43-013-31625

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

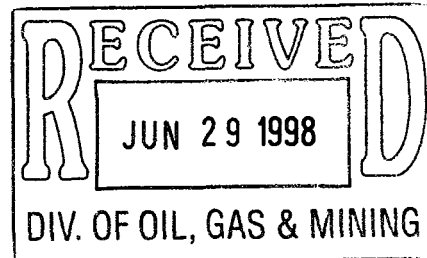
☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Reclamation

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The location reclamation and recontouring have been completed in accordance with the Surface Use Program on April 9, 1998, per BLM specifications. The topsoil has been spread over the rehabilitated area, and seeding has been conducted per BLM requirements. All construction and restoration operations have been completed.



14. I hereby certify that the foregoing is true and correct

Signed

Cheryl Cameron
Cheryl Cameron

Title

Regulatory Specialist

Date

6/25/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: UTAH DOGM

INLAND RESOURCES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FOR NO. 5983D P.2/2

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or QA, Agreement Designation

SAND WASH (GR RVR)

8. Well Name and No.

BOUNDARY FEDERAL 13-19-8-17

9. API Well No.

43-013-31625

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well



Oil
Well



Gas
Well



Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

742 FSL 823 FWL

SW/SW Section 19, T08S R17E

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION



Notice of Intent



Subsequent Report



Final Abandonment Notice



Abandonment



Recompletion



Plugging Back



Gravel Repair



Altering Casing



Other Weekly Status



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including anticipated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

WEEKLY STATUS REPORT FOR THE PERIOD OF 3/19/98 - 3/25/98

Perf D sds @ 5202-04', 5206-21' & 5326-34'.

Swab well, TOH & prepare injection string.

TIH injection string. Set, land pkr.

Perform csg integrity test. Well ready for injection.

14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

12/29/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: UTAH DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WTC
12-30-98
RJK

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

SAND WASH (GR RVR)

8. Well Name and No.

BOUNDARY FEDERAL 13-19-8-17

9. API Well No.

43-013-31625

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

742 FSL 823 FWL SW/SW Section 19, T08S R17E

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **Weekly Status**

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

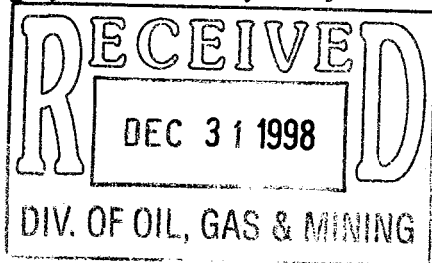
WEEKLY STATUS REPORT FOR THE PERIOD OF 3/19/98 - 3/25/98

Perf D sds @ 5202-04', 5206-21' & 5326-34'.

Swab well. TOH & prepare injection string.

TIH injection string. Set, land pkr.

Perform csg integrity test. Well ready for injection.



14. I hereby certify that the foregoing is true and correct

Signed

Shannon Smith

Title

Engineering Secretary

Date

12/29/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: UTAH DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

1. SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NO. U-50376
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A
OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injector		7. UNIT AGREEMENT NAME SAND WASH (GR RVR)
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		8. WELL NAME and NUMBER BOUNDARY FEDERAL 13-19-8-17
3. ADDRESS AND TELEPHONE NUMBER Rt. 3 Box 3630, Myton Utah 84052 435-646-3721		9. API NUMBER 43-013-31625
4. LOCATION OF WELL Footages 742 FSL 823 FWL QQ, SEC, T, R, M: SW/SW Section 19, T08S R17E		10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE
		COUNTY DUCHESNE STATE UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA	
NOTICE OF INTENT: (Submit in Duplicate)	SUBSEQUENT REPORT OF: (Submit Original Form Only)
<input type="checkbox"/> ABANDON	<input type="checkbox"/> ABANDON*
<input type="checkbox"/> REPAIR CASING	<input type="checkbox"/> REPAIR CASING
<input type="checkbox"/> CHANGE OF PLANS	<input type="checkbox"/> CHANGE OF PLANS
<input type="checkbox"/> CONVERT TO INJECTION	<input type="checkbox"/> CONVERT TO INJECTION
<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE	<input type="checkbox"/> FRACTURE TREAT OR ACIDIZE
<input type="checkbox"/> MULTIPLE COMPLETION	<input checked="" type="checkbox"/> OTHER Step Rate Test
<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> NEW CONSTRUCTION
<input type="checkbox"/> PULL OR ALTER CASING	<input type="checkbox"/> PULL OR ALTER CASING
<input type="checkbox"/> RECOMPLETE	<input type="checkbox"/> RECOMPLETE
<input type="checkbox"/> REPERFORATE	<input type="checkbox"/> REPERFORATE
<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> WATER SHUT OFF	
<input type="checkbox"/> OTHER _____	
DATE WORK COMPLETED _____ Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form. *Must be accompanied by a cement verification report.	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)

A step rate test was conducted on the subject well on 2/14/01. Results indicate that the formation fracture gradient is .556 psi/ft. Therefore, Inland is requesting that the MAIP be changed to 630 psi.

13. NAME & SIGNATURE: Michael Guinn TITLE District Engineer DATE 3/2/01

(This space for State use only)

4/94

Approved by the
Utah Division of
Oil, Gas and Mining

See Instructions On Reverse Side

Date: 4-19-2001
By: D. Guinn

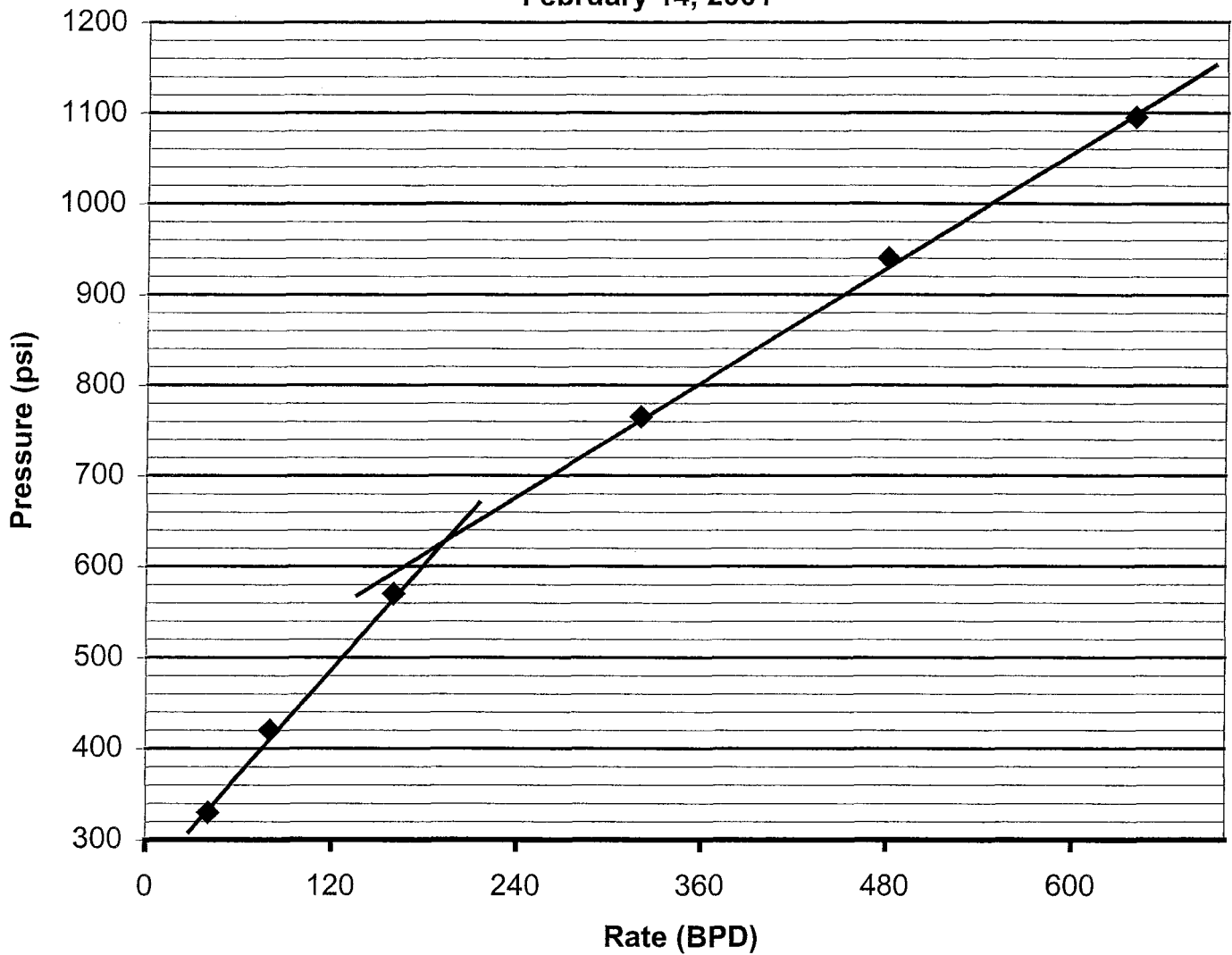
COPY SENT TO OPERATOR
Date: 04-19-01
By: CHD

RECEIVED

MAR 06 2001

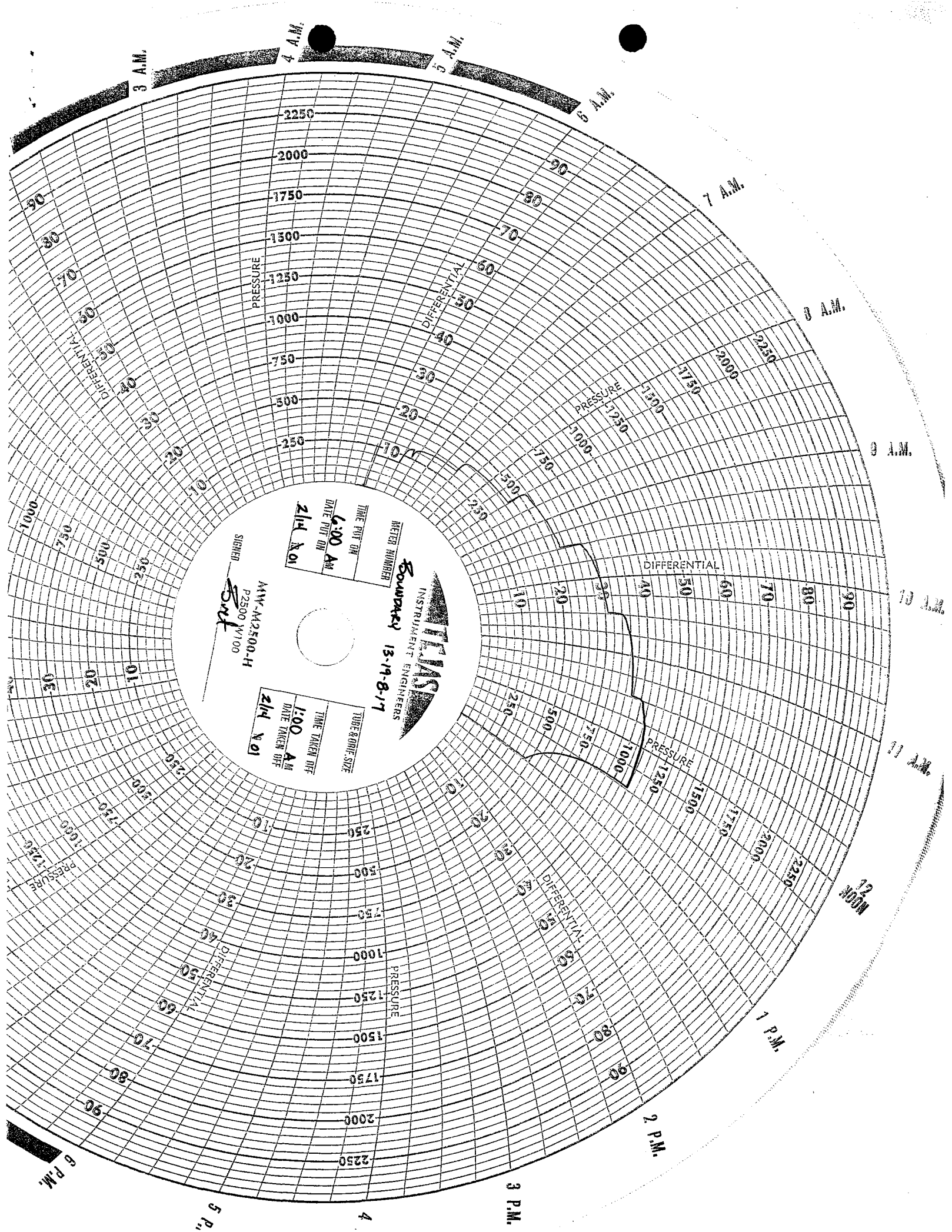
DIVISION OF
OIL, GAS AND MINING

Boundary 13-19-8-17
Greater Boundary
Step Rate Test
February 14, 2001



Start Pressure: 200 psi
ISIP: 780 psi
Fracture pressure: 630 psi
Top Perforation: 5202 feet
FG: 0.556 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	40	330
2	80	420
3	160	570
4	320	765
5	480	940
6	640	1095



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

1. SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. UTU-76954	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A	
3. ADDRESS OF OPERATOR Rt. 3 Box 3630, Myton Utah 84052 435-646-3721		7. UNIT AGREEMENT NAME SAND WASH (GR RVR)	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW/SW Section 19, T8S R17E 742 FSL 823 FWL		8. FARM OR LEASE NAME BOUNDARY FED 13-19-8-17	
14. API NUMBER 43-013-31625		9. WELL NO. BOUNDARY FED 13-19-8-17	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5379 GR		10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE	
12. COUNTY OR PARISH DUCHESNE		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW/SW Section 19, T8S R17E	
13. STATE UT			

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> ABANDON* <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (OTHER) <input type="checkbox"/>		SUBSEQUENT REPORT OF: WATER SHUT-OFF <input type="checkbox"/> REPAIRING WELL <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/> (OTHER) <input checked="" type="checkbox"/> 5 Year MIT (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

A 5 Year MIT was conducted on the subject well. On 3/6/03, Mr. Al Craver with the EPA was contacted and gave permission to conduct an MIT on the casing. On 3/10/03, the casing was pressured to 1165 psig and charted for 1/2 hour test with no pressure loss. Mr. Dennis Ingram with the State of Utah DOGM was present to witness the test.

COPY SENT TO OPERATOR
 Date: 03-12-03
 Initials: CHD

18 I hereby certify that the foregoing is true and correct

SIGNED <u>Martha Hall</u> Martha Hall	TITLE <u>Office Manager</u>	DATE <u>3/11/2003</u>
--	-----------------------------	-----------------------

cc: BLM
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
MAR 13 2003
 DIV. OF OIL, GAS & MINING

* See Instructions On Reverse Side

Accepted by the
Utah Division of
Oil, Gas and Mining
 Date: 03-13-03
 By: [Signature]

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: DENNIS INGRAM Date: 3 / 10 / 03
Test conducted by: BRET HENRIE
Others present: _____

Well Name: <u>BOUNDARY FEDERAL 13-19-8-17</u>	Type: <u>ER SWD</u>	Status: <u>AC TA UC</u>
Field: <u>SANDWASH UNIT</u>		
Location: <u>SW/SW</u> Sec: <u>19</u> T <u>8</u> N/S R <u>17</u> E/W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>INLAND</u>		
Last MIT: <u>3 / 26 / 98</u> Maximum Allowable Pressure: <u>630</u> PSIG		

RECEIVED

MAR 13 2003

DIV. OF OIL, GAS & MINING

Is this a regularly scheduled test? ☒ Yes ☐ No

Initial test for permit? ☐ Yes ☒ No

Test after well rework? ☐ Yes ☒ No

Well injecting during test? ☐ Yes ☒ No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING PRESSURE				
Initial Pressure	<u>600</u> psig		psig	psig
End of test pressure	<u>600</u> psig		psig	psig
CASING / TUBING ANNULUS PRESSURE				
0 minutes	<u>1165</u> psig		psig	psig
5 minutes	<u>1165</u> psig		psig	psig
10 minutes	<u>1165</u> psig		psig	psig
15 minutes	<u>1165</u> psig		psig	psig
20 minutes	<u>1165</u> psig		psig	psig
25 minutes	<u>1165</u> psig		psig	psig
30 minutes	<u>1165</u> psig		psig	psig
minutes	psig		psig	psig
minutes	psig		psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness:

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff: _____ Date: ____/____/____

Do you agree with the reported test results? ☐ YES ☐ NO

If not, why?

Possible violation identified? ☐ YES ☐ NO

If YES, what

If YES - followup initiated? ☐ YES

[I NO - why not?

~~RECEIVED~~

MAR 13 2003

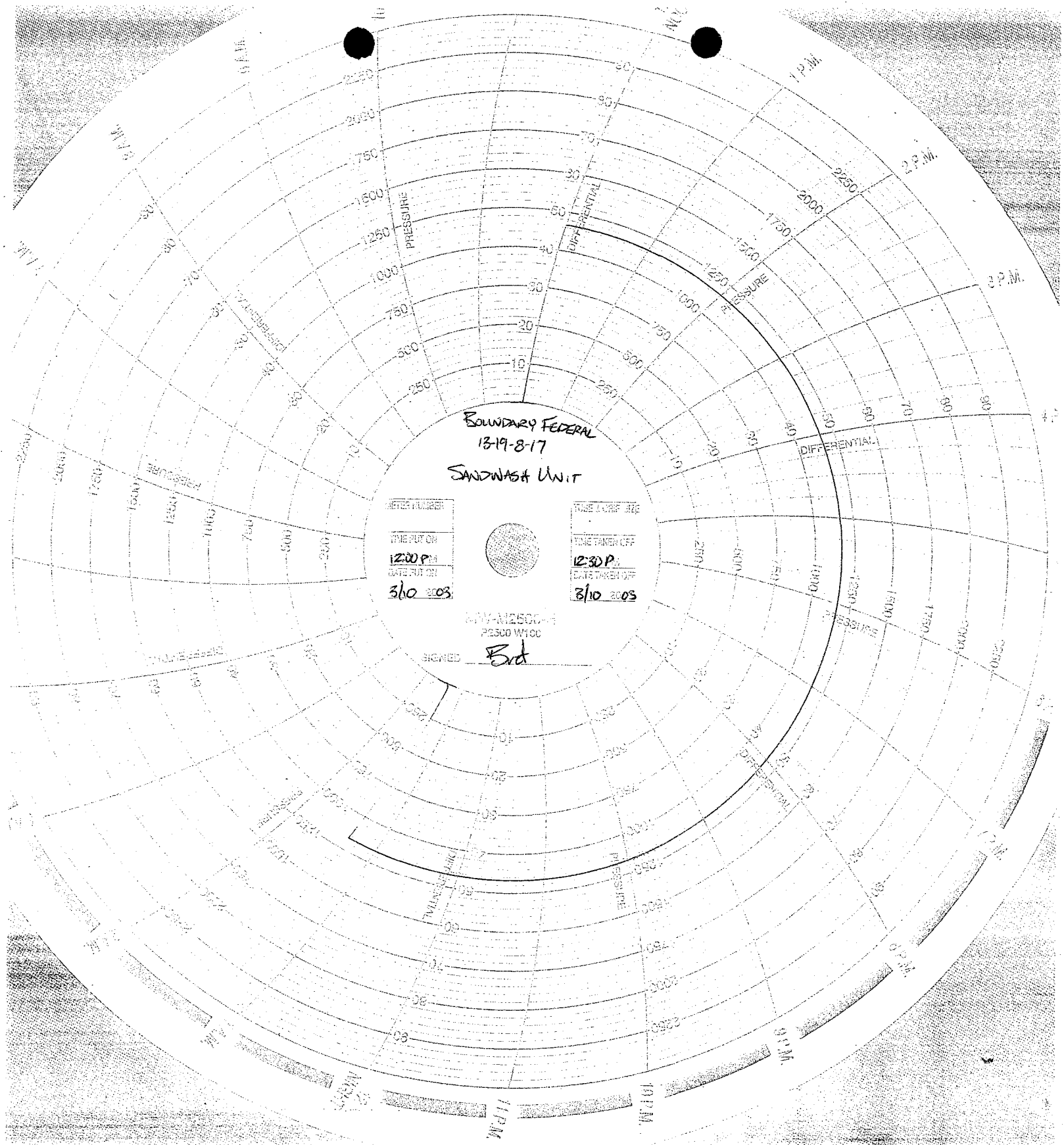
DIV. OF OIL, GAS & MINING

[] Data Entry

☐ Compliance Staff

[] 2nd Data Entry

☐ Hardcopy Filing



RECEIVED

MAR 13 2003

DIV. OF OIL, GAS & MINING

STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

1. **SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.

OIL ☐ GAS ☐
 WELL ☐ WELL ☐ OTHER ☒ **Injection Well**

2. NAME OF OPERATOR
INLAND PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NUMBER
Rt. 3 Box 3630, Myton Utah 84052
435-646-3721

4. LOCATION OF WELL
 Footages **742 FSL 823 FWL**
 QQ, SEC, T, R, M: **SW/SW Section 19, T8S R17E**

5. LEASE DESIGNATION AND SERIAL NO.

UTU-76954

6. IF INDIAN, ALLOTTEE OR TRIBAL NAME

N/A

7. UNIT AGREEMENT NAME

SAND WASH (GR RVR)

8. WELL NAME and NUMBER

BOUNDARY FED 13-19-8-17

9. API NUMBER

43-013-31625

10. FIELD AND POOL, OR WILDCAT

MONUMENT BUTTECOUNTY **DUCHESNE**STATE **UTAH**11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA****NOTICE OF INTENT:**

(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> ABANDON | <input type="checkbox"/> NEW CONSTRUCTION |
| <input type="checkbox"/> REPAIR CASING | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS | <input type="checkbox"/> RECOMPLETE |
| <input type="checkbox"/> CONVERT TO INJECTION | <input type="checkbox"/> REPERFORATE |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE | <input type="checkbox"/> VENT OR FLARE |
| <input type="checkbox"/> MULTIPLE COMPLETION | <input type="checkbox"/> WATER SHUT OFF |
| <input type="checkbox"/> OTHER _____ | |

SUBSEQUENT REPORT OF:

(Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> ABANDON* | <input type="checkbox"/> NEW CONSTRUCTION |
| <input type="checkbox"/> REPAIR CASING | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS | <input type="checkbox"/> RECOMPLETE |
| <input type="checkbox"/> CONVERT TO INJECTION | <input type="checkbox"/> REPERFORATE |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE | <input type="checkbox"/> VENT OR FLARE |
| <input checked="" type="checkbox"/> OTHER Step Rate Test | |

DATE WORK COMPLETED _____

Report results of Multiple Completion and Recompletions to different
 reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND
 LOG form.

*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work)

A step rate test was conducted on the subject well on 1/20/04. The formation fracture pressure was not reached during the test. Therefore, Inland is requesting that the maximum allowable injection pressure (MAIP) be changed to the instantaneous shut in pressure (ISIP) of 1410 psi. Refer to the graph for further details.

13.

NAME & SIGNATURE: _____

Michael Guinn

TITLE

Vice President of Operations

DATE

2/6/2004

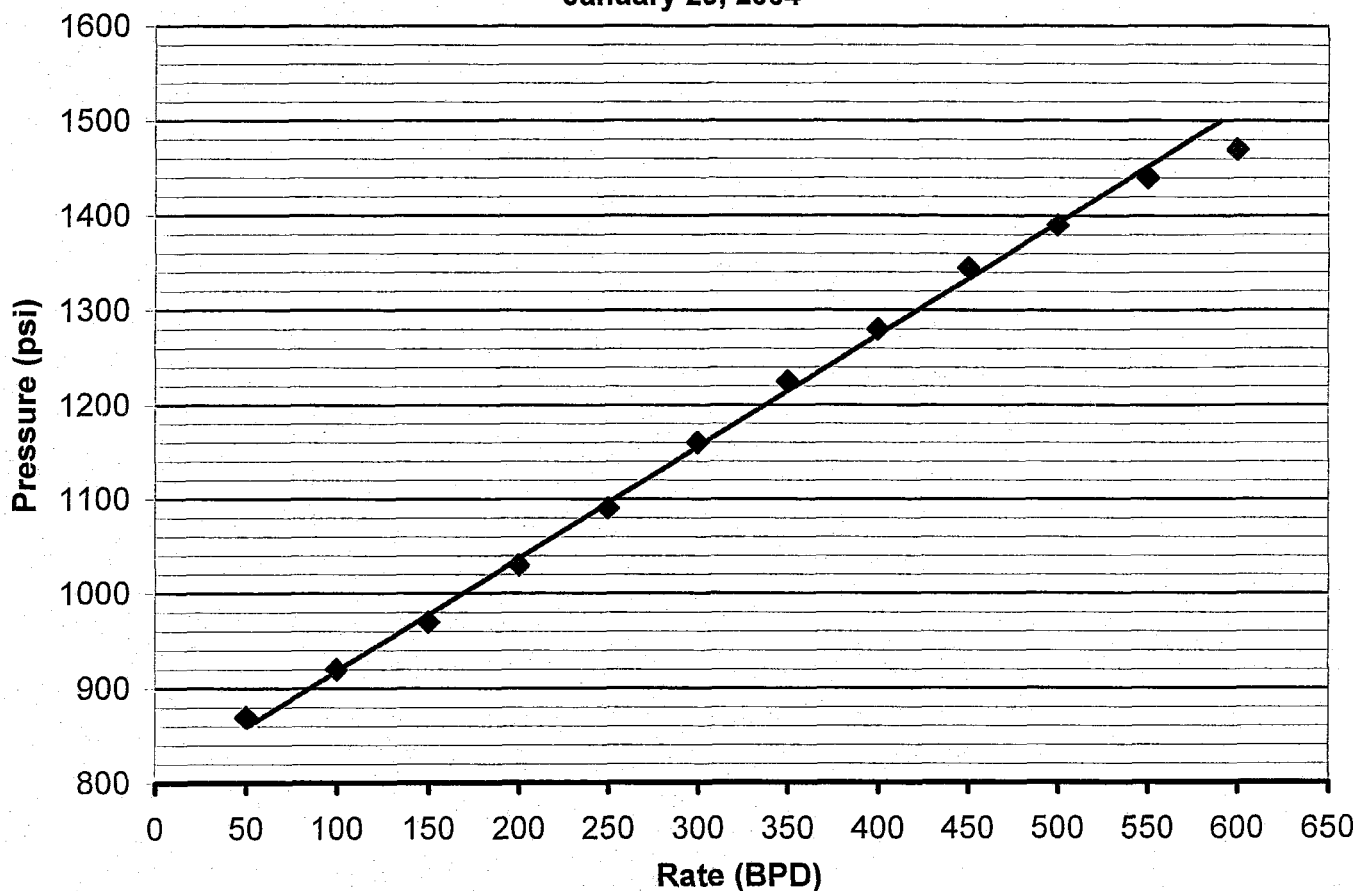
(This space for State use only)

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY**

RECEIVED**FEB 09 2004**

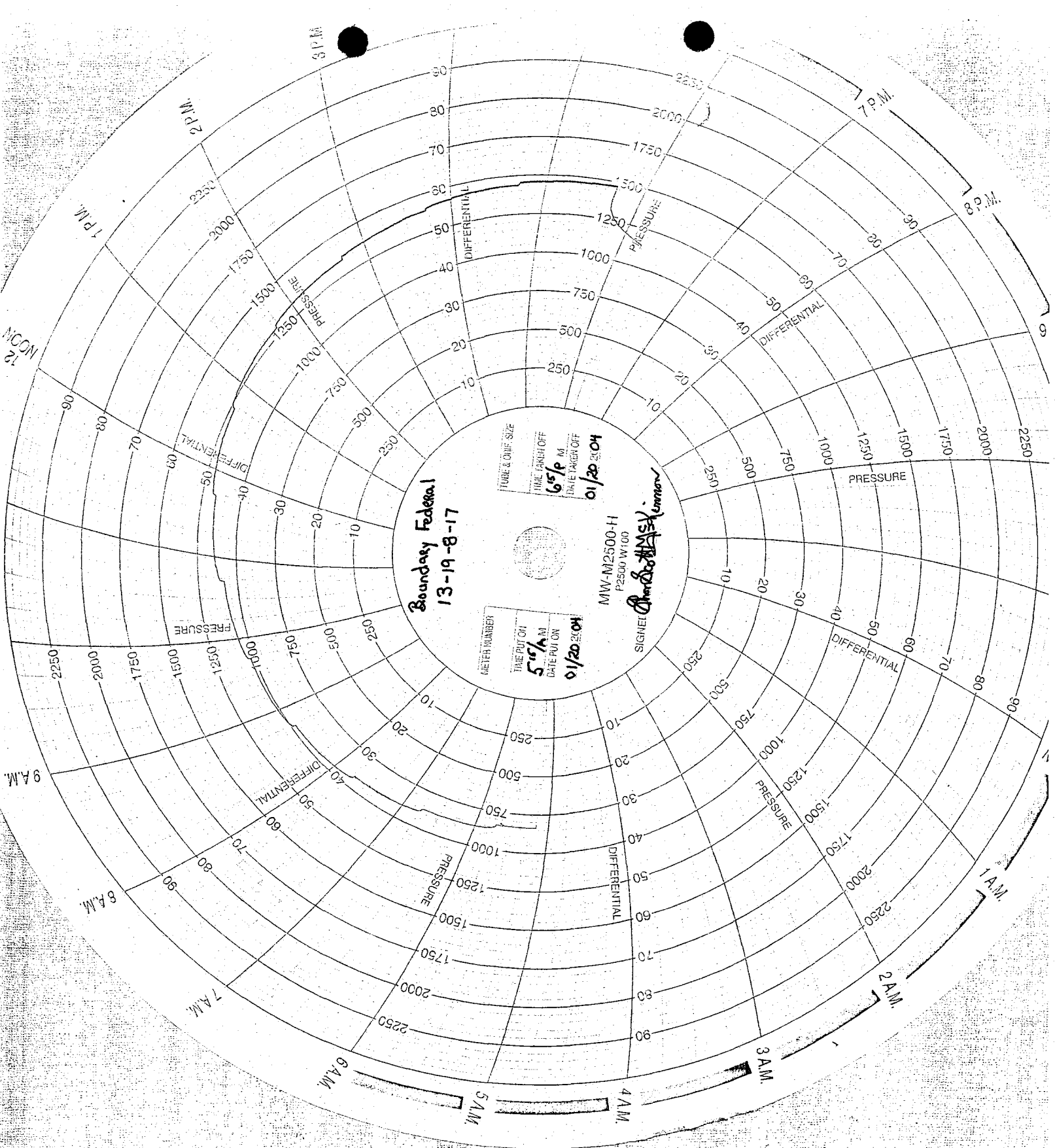
DIV. OF OIL, GAS & MINING

Boundary Federal 13-19-8-17
Sandwash Unit
Step Rate Test
January 20, 2004



Start Pressure: 840 psi
 Instantaneous Shut In Pressure (ISIP): 1410 psi
 Top Perforation: 5202 feet
 Fracture pressure (Pfp): 1440 psi
 FG: 0.712 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	50	870
2	100	920
3	150	970
4	200	1030
5	250	1090
6	300	1160
7	350	1225
8	400	1280
9	450	1345
10	500	1390
11	550	1440
12	600	1470



STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: <u>BOUNDARY FED 13-19-8-17</u>	API Number: <u>43-013-31625</u>
Qtr/Qtr: <u>SW/SW</u>	Section: <u>19</u> Township: <u>8S</u> Range: <u>17E</u>
Company Name: <u>INLAND PRODUCTION Co</u>	
Lease: State <u>UT</u> Fee <u> </u>	Federal <u>UT 4-50736</u> Indian <u> </u>
Inspector: <u>L. L. L. L. L.</u>	Date: <u>03-10-03</u>

Initial Conditions:

Tubing - Rate: Pressure: 600 psiCasing/Tubing Annulus - Pressure: 1165 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	600 1165	1165 600
5	1165	1165
10	1165	1165
15	1165	1165
20	1165	1165
25	1165	1165
30	1165	1165 600

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 600 psiCasing/Tubing Annulus Pressure: 1165 psiCOMMENTS: Tested @ 1200 NPS for 5 year rule

(Not injected at present time)

Bret Horne
 Operator Representative



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

MAR - 3 2004

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

Mr. Michael Guinn
Vice President - Operations
Inland Production Company
Route 3 - Box 3630
Myton, UT 84052

RE: UNDERGROUND INJECTION CONTROL (UIC)
APPROVAL TO INCREASE MAXIMUM
SURFACE INJECTION PRESSURE. No. 1
EPA Permit No. UT20847-04409
Boundary Federal No. 13-19-8-17
SW SW Sec. 19 - T8S - R17E
Duchesne County, Utah

Dear Mr. Guinn:

The Environmental Protection Agency (EPA) Sand Wash Area Permit UT20847-00000 (Effective May 26, 1998), Part II, Section C.5.(b), permits the "Director" to authorize, by letter, an increase in the maximum surface injection pressure (MIP) for the Boundary Federal No. 13-19-8-17 following receipt and approval of a valid Step-Rate Test (SRT).

On February 6, 2004, Inland Production Company (Inland) submitted an SRT, dated January 20, 2004, which was received by the EPA on February 9, 2004. A fracture pressure was not reached during the SRT. Inland's request to change the current injection pressure of 630 psig to the Initial Shut In Pressure of 1410 psig was approved by the EPA on February 10, 2002.

RECEIVED

MAR 05 2004

DIV. OF OIL, GAS & MINING



Printed on Recycled Paper

Mr. Jerry Kenczka
Petroleum Engineer
Bureau of Land Management
Vernal District
170 South 500 East
Vernal, UT 84078

Mr. Nathan Wiser
8ENF-UFO



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov>



IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare



Office of the Secretary of State

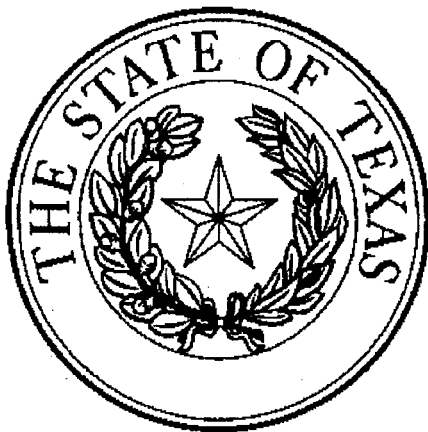
The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas
SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well		Field or Unit Name See Attached List
Footage :	County :	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

Company: Inland Production Company
Address: 1401 17th Street Suite 1000
city Denver state Co zip 80202
Phone: (303) 893-0102
Comments:

Name: Brian Harris
Signature: *Brian Harris*
Title: Engineering Tech.
Date: 9/15/2004

NEW OPERATOR

Company: Newfield Production Company
Address: 1401 17th Street Suite 1000
city Denver state Co zip 80202
Phone: _____
Comments:

Name: Brian Harris
Signature: *Brian Harris*
Title: Engineering Tech.
Date: 9/15/2004

(This space for State use only)

Transfer approved by: *A. Hunt*Title: *Perk. Services Manager*Approval Date: *9-20-04*

Comments:

*Note: Indian Country wells will require EPA approval.*RECEIVED
SEP 20 2004

DIV. OF OIL, GAS & MINING

OPERATOR CHANGE WORKSHEET**ROUTING**

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change**Merger**

The operator of the well(s) listed below has changed, effective:

9/1/2004

FROM: (Old Operator):
 N5160-Inland Production Company
 Route 3 Box 3630
 Myton, UT 84052
 Phone: 1-(435) 646-3721

TO: (New Operator):
 N2695-Newfield Production Company
 Route 3 Box 3630
 Myton, UT 84052
 Phone: 1-(435) 646-3721

CA No.**Unit:****SAND WASH (GREEN RIVER)****WELL(S)**

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BOUNDARY FED 13-19-8-17	19	080S	170E	4301331625	12308	Federal	WI	A
TAR SANDS FED 12-30	30	080S	170E	4301331543	12308	Federal	OW	P
TAR SANDS FED 5-30	30	080S	170E	4301331620	12308	Federal	WI	A
TAR SANDS FED 4-30	30	080S	170E	4301331621	12308	Federal	OW	P
TAR SANDS FED 13-30	30	080S	170E	4301331637	12308	Federal	WI	A
TAR SANDS FED 16-30	30	080S	170E	4301331708	12308	Federal	OW	P
TAR SANDS FED 14-30	30	080S	170E	4301331711	12308	Federal	OW	P
TAR SANDS 6-30-8-17	30	080S	170E	4301331712	12308	Federal	OW	P
TAR SANDS FED 11-30	30	080S	170E	4301331732	12308	Federal	WI	A
TAR SANDS FED 3-30	30	080S	170E	4301331755	12308	Federal	WI	A
HARBOUR TOWN FED 31-30	30	080S	170E	4301331758	12308	Federal	OW	P
TAR SANDS FED 7-30	30	080S	170E	4301331807	12308	Federal	WI	A
TAR SANDS FED 10-30	30	080S	170E	4301331808	12308	Federal	OW	P
GOVERNMENT 31-2	31	080S	170E	4301320082	12308	Federal	OW	P
TAR SANDS FED 4-31	31	080S	170E	4301331606	12308	Federal	OW	P
TAR SANDS FED 5-31	31	080S	170E	4301331607	12308	Federal	WI	A
TAR SANDS FED 8-31	31	080S	170E	4301331615	12308	Federal	OW	P
TAR SANDS FED 9-31	31	080S	170E	4301331616	12308	Federal	OW	P
TAR SANDS FED 1-31	31	080S	170E	4301331654	12308	Federal	WI	A
TAR SANDS FED 7-31	31	080S	170E	4301331684	12308	Federal	WI	A
TAR SANDS FED 6-31	31	080S	170E	4301331686	12308	Federal	OW	P
TAR SANDS FED 3-31	31	080S	170E	4301331733	12308	Federal	WI	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - **received 2/23/05**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone (include area code)
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
742 FSL 823 FWL
SWSW Section 19 T8S R17E

5. Lease Serial No.

USA UTU-76954

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
SAND WASH UNIT

8. Well Name and No.
BOUNDARY FED 13-19-8-17

9. API Well No.
4301331625

10. Field and Pool, or Exploratory Area
MONUMENT BUTTE

11. County or Parish, State
DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Step Rate Test _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomple in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

A step rate test was conducted on the subject well on June 6, 2007. Results from the test indicate that the fracture gradient is .735 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1535 psi.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
JUN 28 2007

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and
correct (Printed/ Typed)

Chevenne Bateman

Signature

Title

Well Analyst Foreman

Date

06/25/2007

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or
certify that the applicant holds legal or equitable title to those rights in the subject lease
which would entitle the applicant to conduct operations thereon.

Title

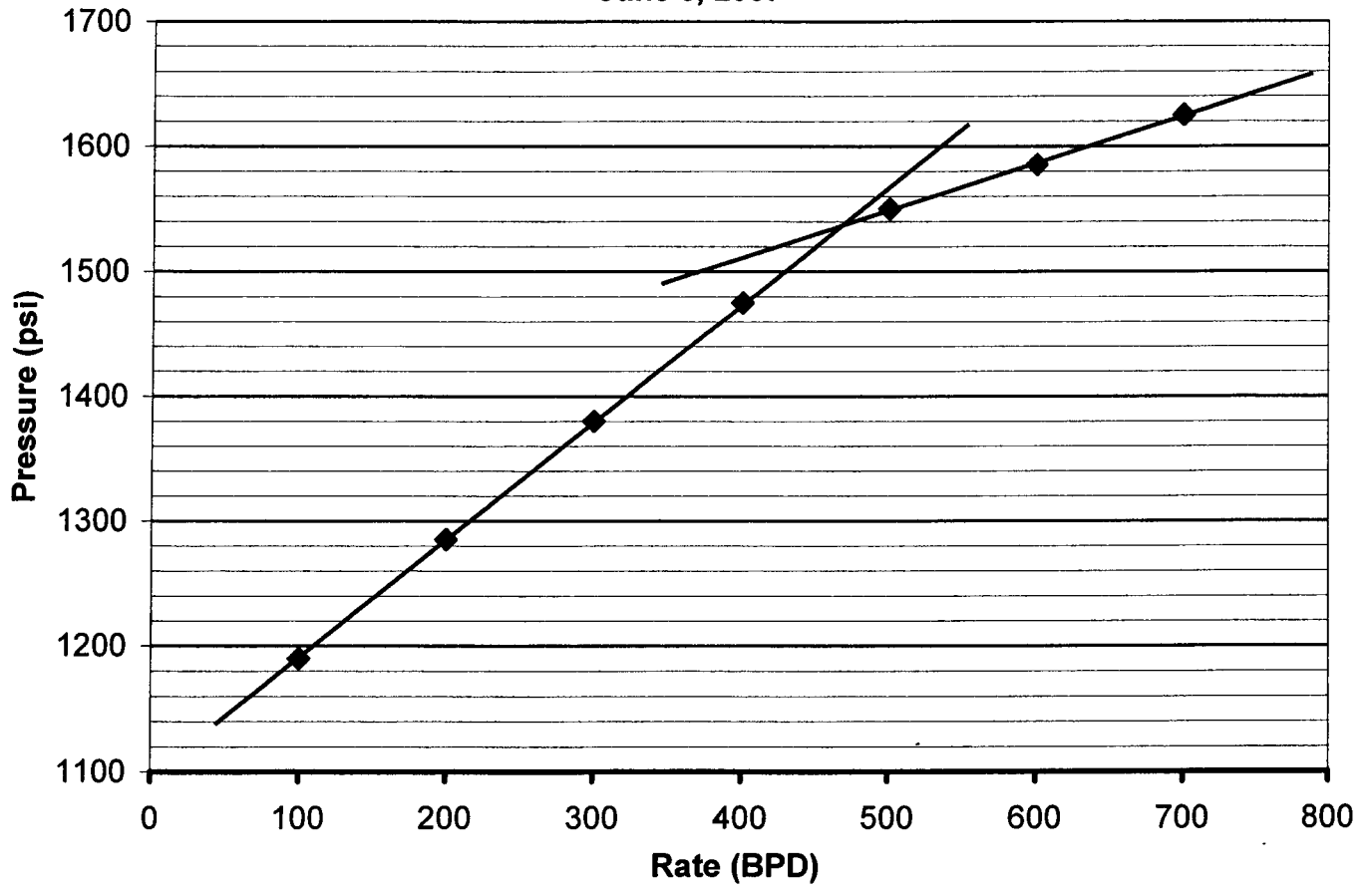
Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

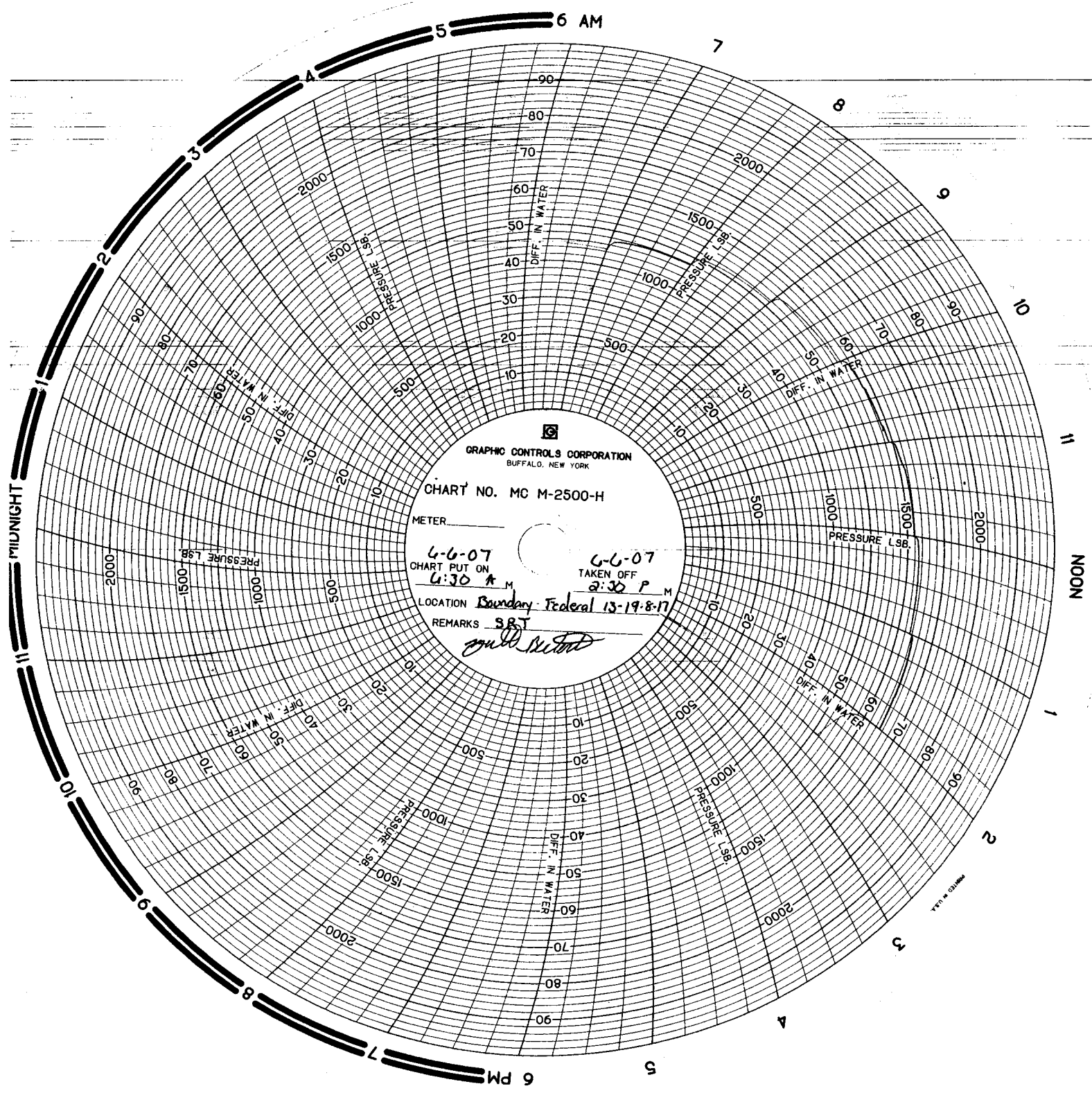
(Instructions on reverse)

Boundary Federal 13-19-8-17
Sandwash Unit
Step Rate Test
June 6, 2007



Start Pressure: 1120 psi
Instantaneous Shut In Pressure (ISIP): 1540 psi
Top Perforation: 5202 feet
Fracture pressure (Pfp): 1535 psi
FG: 0.735 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	100	1190
2	200	1285
3	300	1380
4	400	1475
5	500	1550
6	600	1585
7	700	1625



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-76954
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: SAND WASH UNIT
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 742 FSL 823 FWL OTR/OTR SECTION TOWNSHIP RANGE MERIDIAN: SWSW, 19, T8S, R17E		8. WELL NAME and NUMBER: BOUNDARY FED 13-19-8-17
PHONE NUMBER 435.646.3721		9. API NUMBER: 4301331625
		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/STOP) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARITLY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLAIR <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: - 5 Year MIT
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 02/12/2008			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 2/4/08 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. Permission was given at that time to perform the test on 2/12/08. On 2/12/08 the csg was pressured up to 1100 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1500 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT 20844-04409 API# 43-013-31625

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

NAME (PLEASE PRINT) Callie Ross TITLE Production Clerk
SIGNATURE *Callie Ross* DATE 02/14/2008

(This space for State use only)

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FEB 15 2008

DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 2 / 12 / 08
Test conducted by: David Chase - Newfield Exp.
Others present: _____

Well Name: <u>Boundary Federal 13-19-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>13-19-8-17</u> Sec: <u>19</u> T <u>5</u> N (S) R <u>17</u> (E) W	County: <u>Duchesne</u> State: <u>Utah</u>	
Operator: <u>Newfield Exp.</u>		
Last MIT: <u> / / </u>	Maximum Allowable Pressure: <u>1535</u> PSIG	

Is this a regularly scheduled test? ☒ Yes ☐ No
Initial test for permit? ☐ Yes ☒ No
Test after well rework? ☐ Yes ☒ No
Well injecting during test? ☒ Yes ☐ No If Yes, rate: 99 bpd

Pre-test casing/tubing annulus pressure: _____ psig

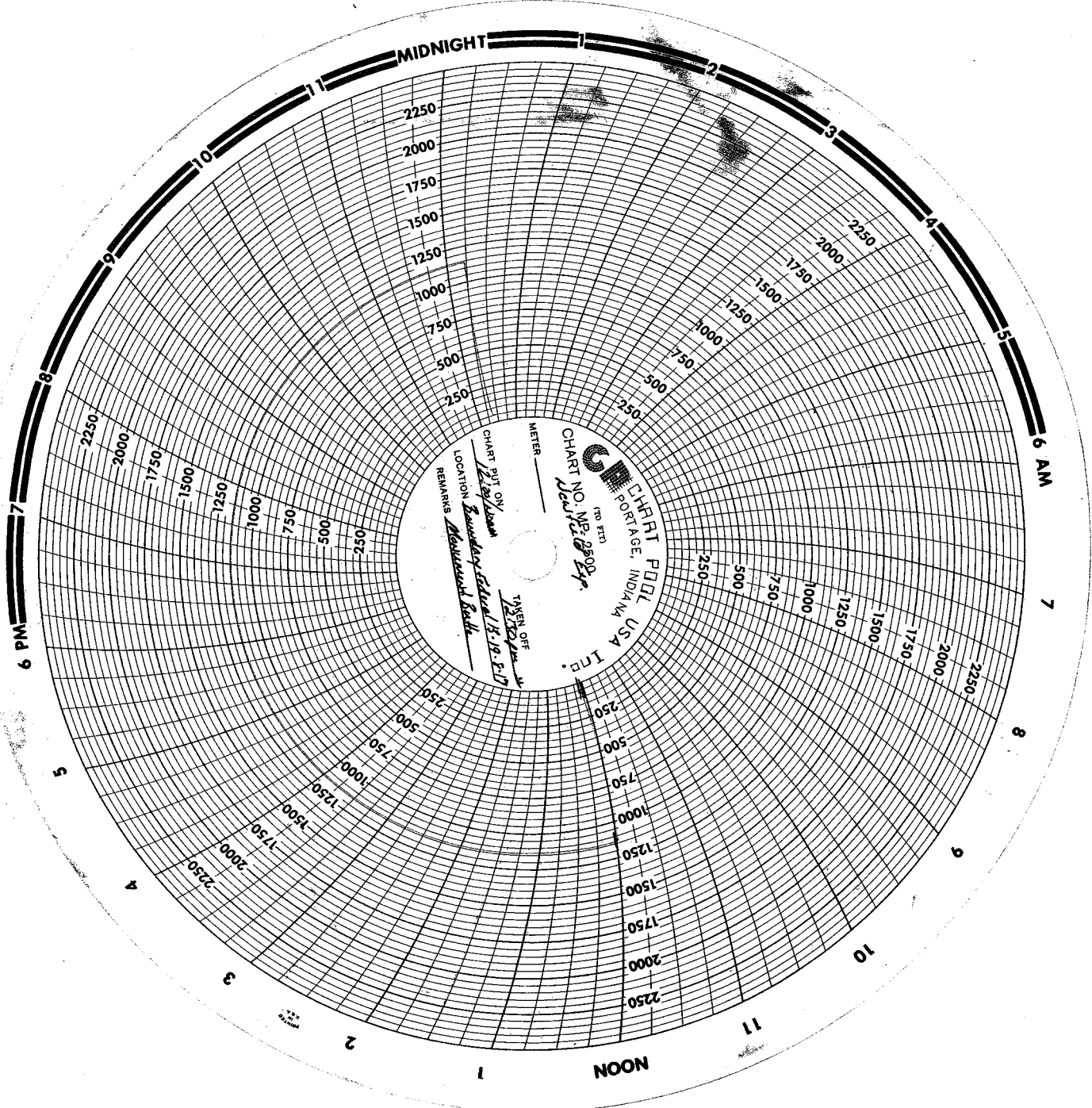
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	<u>1500*</u> psig	psig	psig
End of test pressure	<u>1500*</u> psig	psig	psig
CASING / TUBING	ANNULUS PRESSURE		
0 minutes	<u>1100*</u> psig	psig	psig
5 minutes	<u>1100*</u> psig	psig	psig
10 minutes	<u>1100*</u> psig	psig	psig
15 minutes	<u>1100*</u> psig	psig	psig
20 minutes	<u>1100*</u> psig	psig	psig
25 minutes	<u>1100*</u> psig	psig	psig
30 minutes	<u>1100*</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: [Signature]



CIRCHART PUBL. USA INC.
(700 ETT)
PORTAGE, INDIANA
CHART NO. **NP-2500**
Nav. Ed. 2-79
METER _____
CHART PUT ON/ *1750 12/1/79*
LOCATION *Bounding Island 13-18-5-17*
REMARKS *Revised 12/1/79*

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-50376
1. TYPE OF WELL Water Injection Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		8. WELL NAME and NUMBER: BOUNDARY FED 13-19-8-17
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0742 FSL 0823 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 19 Township: 08.0S Range: 17.0E Meridian: S		9. API NUMBER: 43013316250000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/11/2013	<input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: 5 YR MIT	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. NFX performed a 5 year MIT on the above listed well. On 01/11/2013 the casing was pressured up to 1445 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 770 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22197-04409		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 12, 2013		
NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 1/15/2013	

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 1 / 11 / 13

Test conducted by: Cody Vanderlinden

Others present: Lynn Manson

Well Name: <u>Boundary Federal</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>13</u> Sec: <u>19</u> T <u>8</u> N <u>(S)</u> R <u>17</u> E W	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Newfield Production Company</u>		
Last MIT: <u>/ /</u>	Maximum Allowable Pressure: <u>1570</u>	PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No
 Initial test for permit? ☐ Yes ☒ No
 Test after well rework? ☐ Yes ☒ No
 Well injecting during test? ☐ Yes ☒ No If Yes, rate: bpd

Pre-test casing/tubing annulus pressure: 0 psig

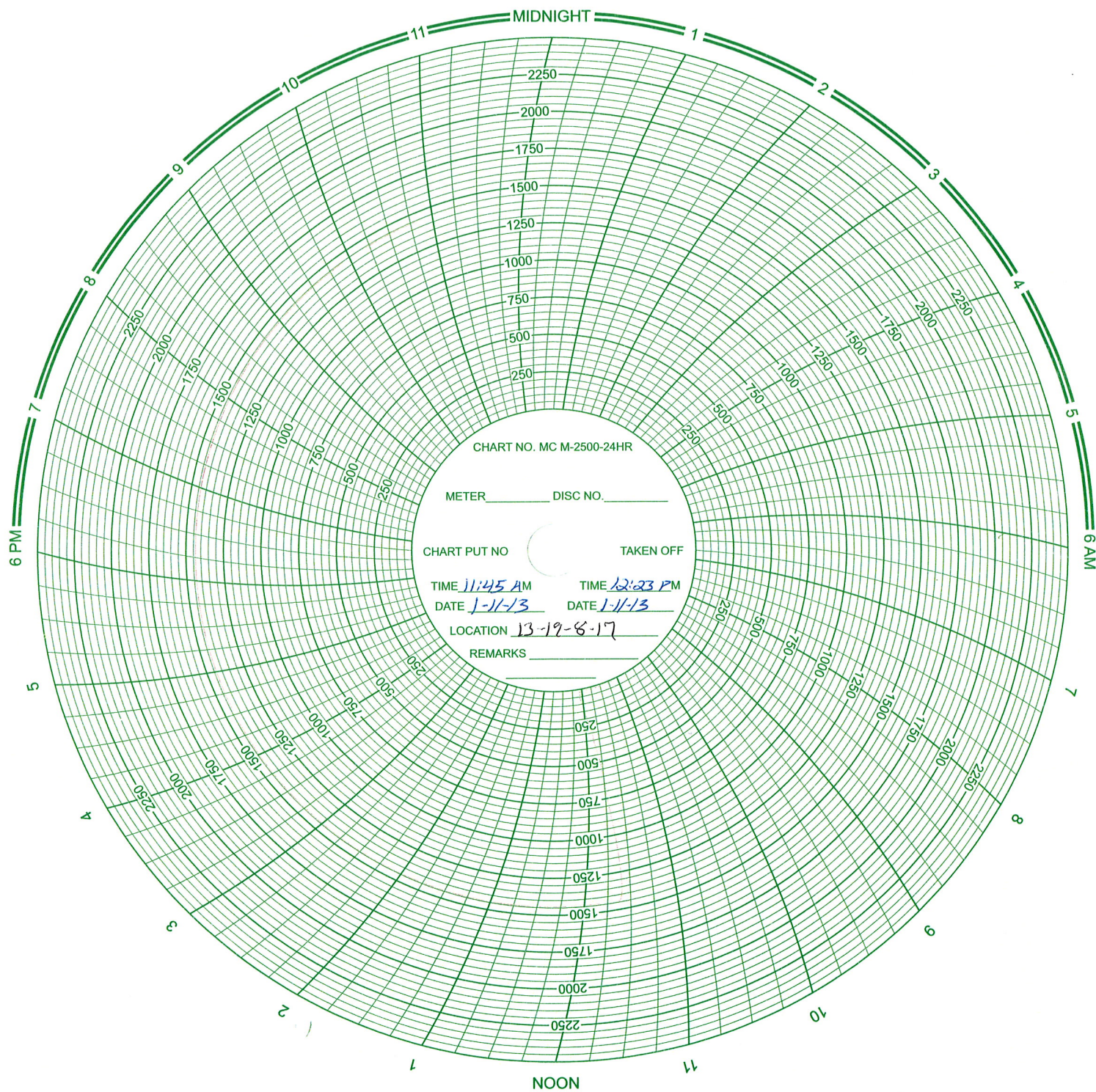
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	<u>770</u> psig	psig	psig
End of test pressure	<u>770</u> psig	psig	psig
CASING / TUBING	ANNULUS	PRESSURE	
0 minutes	<u>1445</u> psig	psig	psig
5 minutes	<u>1445</u> psig	psig	psig
10 minutes	<u>1445</u> psig	psig	psig
15 minutes	<u>1445</u> psig	psig	psig
20 minutes	<u>1445</u> psig	psig	psig
25 minutes	<u>1445</u> psig	psig	psig
30 minutes	<u>1445</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____





43-013-31625

Well Name: Boundary 13-19-8-17

Surface Legal Location 19-8S-17E				API/UWI 43013316250000	Well RC 500151486	Lease	State/Province Utah	Field Name GMBU CTB7	County Duchesne
Spud Date	Rig Release Date	On Production Date 4/22/1998	Original KB Elevation (ft) 5,392	Ground Elevation (ft) 5,379	Total Depth All (TVD) (ftKB)		PBTD (All) (ftKB) Original Hole - 6,250.0		

Most Recent Job

Job Category Production / Workover	Primary Job Type Clean-out	Secondary Job Type N/A	Job Start Date 6/12/2014	Job End Date 6/12/2014
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TD: 6,300.0

Vertical - Original Hole, 3/1/2016 12:46:01 PM

MD (ftKB)	TVD (ftKB)	Incl (°)	DLS	Vertical schematic (actual)
			DLS (°...)	
-144.0				
13.1				
148.6				
284.1				
284.6				
285.1				1; Surface; 8 5/8 in; 8.097 in; 13-285 ftKB; 271.95 ft
2,689.6				1-1; Tubing; 2 7/8; 2.441; 13-5,094; 5,080.98
5,094.2				
5,094.3				1-2; Pump Seating Nipple; 2 7/8; 5,094-5,095; 0.50
5,094.5				
5,098.3				1-3; Packer; 5 1/2; 5,095-5,102; 7.40
5,102.0				
5,152.1				
5,202.1				
5,268.0				Perforated; 5,202-5,334; 3/23/1998
5,334.0				
5,792.0				
6,250.0				
6,263.5				
6,276.9				
6,277.2				
6,277.6				
6,288.4				
6,299.2				
6,299.5				
6,299.9				2; Production; 5 1/2 in; 4.950 in; 13-6,300 ftKB; 6,286.95 ft
6,457.0				

NEWFIELD



Newfield Wellbore Diagram Data Boundary 13-19-8-17

Surface Legal Location 19-8S-17E		API/UWI 43013316250000		Lease	
County Duchesne	State/Province Utah		Basin	Field Name GMBU CTB7	
Well Start Date 5/6/1996	Spud Date		Final Rig Release Date	On Production Date 4/22/1998	
Original KB Elevation (ft) 5,392	Ground Elevation (ft) 5,379	Total Depth (ftKB) 6,300.0		Total Depth All (TVD) (ftKB)	PBTD (All) (ftKB) Original Hole - 6,250.0

Casing Strings

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	5/6/1996	8 5/8	8.097	24.00	J-55	285
Production	5/28/1997	5 1/2	4.950	15.50	J-55	6,300

Cement

String: Surface, 285ftKB 5/7/1996

Cementing Company	Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 285.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description	Fluid Type Lead	Amount (sacks) 120	Class Premium Cmt	Estimated Top (ftKB) 13.0

String: Production, 6,300ftKB 5/28/1997

Cementing Company	Top Depth (ftKB) 13.0	Bottom Depth (ftKB) 6,300.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description	Fluid Type Lead	Amount (sacks) 490	Class Hibond mixed	Estimated Top (ftKB) 13.0
Fluid Description	Fluid Type Tail	Amount (sacks) 400	Class Thixo	Estimated Top (ftKB) 2,500.0

Tubing Strings

Tubing Description					Run Date		Set Depth (ftKB)	
Tubing					3/25/1998		5,102.0	
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing	167	2 7/8	2.441	6.50	M-50	5,080.98	13.1	5,094.1
Pump Seating Nipple	1	2 7/8				0.50	5,094.1	5,094.6
Packer	1	5 1/2				7.40	5,094.6	5,102.0

Rod Strings

Rod Description		Run Date			Set Depth (ftKB)		
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)

Perforation Intervals

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (")	Norm Hole Dia (in)	Date
1	CP1, Original Hole	5,202	5,334	4			3/23/1998

Stimulations & Treatments

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	780	0.55	18.0	630			

Proppant

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant White Sand 56300 lb